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**IN RE KOREAN RAMEN ANTITRUST
LITIGATION**

UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF CALIFORNIA

Case No. [13-cv-04115-WHO](#)

**ORDER GRANTING MOTIONS FOR
CLASS CERTIFICATION**

Re: Dkt. Nos. 361, 364, 490, 492

INTRODUCTION

Defendants Nongshim Co., Ltd., Nongshim America, Inc. (collectively Nongshim), Ottogi Co, Ltd., and Ottogi America, Inc. (collectively Ottogi), allegedly conspired, along with Samyang Foods Co. Ltd., and Korea Yakult Co. Ltd. (collectively “conspirators”) to raise the price of Korean Noodles¹ in Korea and in the United States.² Two groups of plaintiffs in these consolidated cases – Direct Purchaser Plaintiffs (DPPs), food retailers and distributors that purchased Korean Noodles directly from defendants,³ and Indirect Purchaser Plaintiffs (IPPs), individuals who purchased Korean Noodles manufactured by defendants from non-party retailers in California, Hawaii, Massachusetts, Michigan, Florida, and New York⁴ – now move for class

¹ Korean Noodles are defined as by plaintiffs as Nongshim and Ottogi branded bag, cup, or bowl ramen, including fried, dried, fresh and frozen noodle products. DPP Mot. at 2, n6.

² Samyang Foods Co. Ltd. and Sam Yang (USA), Inc. settled with the plaintiffs and judgment has been entered against them. Dkt. Nos. 398, 399. Korea Yakult Co. Ltd. was dismissed. Dkt. No. 115.

³ The named DPP plaintiffs are: The Plaza Market, Plaintiff Pacific Groservice, Inc. d/b/a/ Pitco Foods, Summit Import Corporation, and Rockman Company U.S.A. Inc.

⁴ The named IPP plaintiffs are: Stephen Fenerjian, Joyce Beamer, Kendal Martin, Anthony An, Eleanor Pelobello, Jill Bonnington, Kenny Kang, Christina Nguyen, Thu-Thuy Nguyen, Yim Ha Nobel, Ji Choi, and Charles Chung.

1 certification, arguing that the Korean conspiracy impacted the price of Korean Noodles sold in the
 2 United States and that they paid more for Korean Noodles than they would have in a competitive
 3 market.⁵

4 Defendants oppose certification, arguing primarily that the econometric models used by the
 5 DPPs' expert (Dr. Russell W. Mangum, III) and the IPPs' expert (Dr. Daniel A. Ackerberg) are
 6 inherently unreliable and the inputs they use in their models are counter-factual, so their opinions
 7 as to classwide injury and damages are without basis and excludable under *Daubert v. Merrell*
 8 *Dow Pharmaceuticals, Inc.*, 509 U.S. 579 (1993). Defendants also argue that the models' inherent
 9 unreliability means that both sets of plaintiffs have not shown that they can prove injury on a
 10 classwide basis and that plaintiffs otherwise fail the ascertainability, typicality, and predominance
 11 requirements of Rule 23(a) and (b). They stress that the court's analysis of the expert opinions
 12 must be rigorous and that the experts' evidence must be persuasive.

13 Defendants raise reasonable criticisms of plaintiffs' experts' opinions. But it is not my job
 14 to choose which side's experts appear strongest, at least at this stage. Instead, I need to determine
 15 that the experts' methodologies and opinions are sufficiently reliable to support certification of the
 16 class by a preponderance of the evidence and that the experts' opinions are admissible. Plaintiffs
 17 have met that burden for certification. I GRANT their motions and DENY defendants' *Daubert*
 18 motions.

19 BACKGROUND

20 I. KOREAN MARKET AND ALLEGED CONSPIRACY

21 A. Korean Ramen Noodles in Korea and the United States

22 During the relevant timeframe there were four main entities in the Korean Noodle⁶ market:

23
 24 ⁵ The DPPs allege a cause of action for price-fixing conspiracy in violation of Sections 1 and 3 of
 25 the Sherman Act, 15 U.S.C. §§ 1, 3. The IPPs allege causes of action for: (i) price-fixing
 26 conspiracy in violation of Section 1 of the Sherman Act, 15 U.S.C. § 1; (ii) price-fixing conspiracy
 27 in violation of California's Cartwright Act, Cal. Bus. & Code §§ 16700, *et seq.*; (iii) violations of
 antitrust and restraint of trade laws of California, Michigan, Hawaii, and New York; (iv) violations
 of state consumer protection laws of California, Florida, and Massachusetts; and (v) unjust
 enrichment and disgorgement under the common laws of Hawaii and Massachusetts. Dkt. No. 121
 ¶¶ 170-214.

28 ⁶ Defendants do not take issue with how plaintiffs have defined Korean Noodles, but assert there

1 defendants Nongshim Korea and Ottogi Korea, settled-defendant Samyang Foods Co., and
2 dismissed-defendant Korea Yakult. Nongshim was the dominant company, possessing
3 approximately 70% of the Korean Noodle market share in Korea. Declaration of Russell W.
4 Mangum, III (Dkt. No. 363-3) ¶ 33; Declaration of Alan J. Cox (Dkt. No. 441-6) ¶¶ 13, 127.
5 Ottogi had between 9-12% of the market from 2000 through 2007, Samyang between 10-11%, and
6 Yakult between 2 and 6%. Mangum Decl. ¶ 68; *see also* Dosker Decl., Ex. 1 at 11 (Nongshim
7 70.7%, Ottogi 9.5%, Samyang 12.4%, Yakult 7.5% in 2010). Given the high level of market
8 concentration for Korean Noodles in Korea, plaintiffs assert and defendants do not dispute that
9 defendants jointly had the ability to raise prices of Korean Noodles in Korea. Mangum Decl. ¶¶
10 106, 127.

11 All four companies exported Korean Noodles to the United States, through their
12 subsidiaries or otherwise related companies; Nongshim America, Inc., Ottogi America, Inc.,
13 Samyang (USA), Inc. and Paldo America. Nongshim America, Inc. is headquartered in Rancho
14 Cucamonga, California, and has locations in California, Texas, New Jersey, Illinois, Georgia, and
15 Maryland. Mangum Decl. ¶ 31. Throughout the Class Period, Nongshim Korea exported noodles
16 from Korea to the United States, but in 2005, Nongshim Korea also established a factory in
17 Rancho Cucamonga, California, to manufacture Korean Noodles. Mangum Decl. ¶ 32. No other
18 defendants or co-conspirators had manufacturing facilities in the United States. *Id.* Prior to 2005,
19 the Korean Noodles sold by Ottogi America in the United States were manufactured by Ottogi
20 Ramen in South Korea and sold to Ottogi Korea, who either sold to exporters in Korea (who
21 imported into the United States) or sold directly to United States distributors. Declaration of
22 Joseph P. Grasser (Dkt. No. 407-1) Ex. 4 (Deposition Transcript of Min Hwan Choi), 7:5-8:11,
23 16:22-17:2. Defendant Ottogi America, Inc. was formed in 2005 and is headquartered in Gardena,
24 California. Mangum Decl. ¶ 35. Once Ottogi America existed, Ottogi Korea continued to
25 purchase the noodles from an Ottogi Ramen affiliate in Korea, but the noodles were sold

26
27 are about 150 different products in the Korean market, which contain noodles of different
28 thicknesses, weights, and densities; a variety of flavors and added ingredients; and different
packaging (*e.g.*, bags, bowls or cups). Declaration of Mark C. Dosker (Dkt. No. 406-1), Ex. 1 at
2-6.

1 exclusively in the United States by Ottogi America to various United States-based distributors.
 2 Choi Depo. Tr. 15:6-17, 17:20-18:8; *see also* Declaration of Ki Su Jeong ¶¶ 3-5.

3 According to plaintiffs, Korean Noodles have a unique flavor profile and are different from
 4 Japanese or Chinese ramen products (which tend to be less spicy). Mangum Decl. ¶ 61;
 5 Ackerberg Decl. at 9-10.⁷ Because of their unique flavor profile, they were marketed to specific
 6 communities in the United States. Mangum Decl. ¶ 60.⁸ Korean ramen products in the United
 7 States were positioned as high-end or premium and “not in competition with,” the Japanese ramen
 8 brands Nissin and Maruchan. Mangum Decl. ¶ 62; Mangum Reply Decl. ¶¶ 42-48; Ackerberg
 9 Decl. at 10-14; Ackerberg Reply Decl. at 14-17.⁹ However, Korean Noodles are interchangeable
 10 with each other. Mangum Decl. ¶¶ 83, 85-90.¹⁰ Defendants contend that in the relevant market –
 11 the United States – Korean Noodles *are* in competition with Japanese, Chinese, and domestically-
 12 produced instant ramen noodles. Cox Decl. ¶¶ 133-137. Cox asserts that substitution between
 13 Japanese and Korean Noodles is likely, especially at the higher “premium end” where much of the
 14 Korean and some Japanese noodles are positioned. Cox Decl. ¶¶ 142-44.

15 Defendants characterize the United States market as much more competitive than, and

16
 17 ⁷ See Declaration of Stephanie Y. Cho (Dkt. No. 363-5), Ex. 7 (2003 Nongshim Factbook) at p.
 18 16; Cho Decl., Ex. 10 (Nongshim 2004 Annual Report); Cho Decl., Ex. 5 (Nongshim 2005 Annual
 Report).

19
 20 ⁸ Cho Decl., Ex. 12 (NSK0091453) at p. 10; Cho Decl., Ex. 7 (Nongshim 2003 Factbook) at p. 16
 21 (“[b]y targeting Korean Americans and locals, exports to the U.S[.] increased by 14.2% over the
 previous year”); Cho Decl., Ex. 8 (Nongshim 2008 Annual Report) at p. 41 (“[t]argeting over 1.4
 million ethnic Koreans living in the United States, we have exported instant noodles to Los
 Angeles since 1971”).

22
 23 ⁹ Cho Decl., Ex. 6 (NSA0179630) (Kirth Roth e-mail); Cho Decl., Ex. 7 (Nongshim 2003 Fact
 24 Book) at p. 16 (“Currently three Japanese firms, Maruchan, Nissin and Sanyo, have an oligopoly
 25 in the U.S[.] market. The three firms are competing on low-priced products, whereas Nong Shim
 26 is focused on differentiating itself through high-end products.”); Cho Decl., Ex. 8 (Nongshim 2008
 Annual Report) at p. 41 (“Shin Ramyun is sold for 90 cents United States, two to three times
 higher than that of Japanese companies such as Nissin Foods or Maruchan. Such a price
 differential makes an impression on local consumers as a premium brand.”); Cho Decl., Ex. 9
 (Deposition of Whiting Wu, plaintiff Summit Import Corporation) at 63:16-19; 24-25 (“Within the
 trade, we call them Korean noodles, Korean ramen. We just basically classify them into Korean,
 Japanese, Chinese. Each with their own . . . style” “Each ha[s] their own characteristics.”).

27
 28 ¹⁰ Cho Decl., Ex. 3 (Deposition of Bong-Hoon Kim) at 134:7-12 (“the companies in
 the same industry means [] the companies that make Ramen—in this case, Nongshim, Samyang,
 Paldo, Ottogi.”).

1 starkly different from, the Korean market. In the United States, Japanese-style ramen dominates,
2 while Korean, Chinese, and domestically produced products have much smaller shares but have
3 been growing in popularity. Cox Decl. ¶ 38. So while Nongshim America sells 90% of the
4 Korean Noodles in the United States market, that accounts for just 13% of total instant ramen sales
5 in the United States. Cox Decl. ¶ 38. Ottogi's share of the United States market is much smaller.
6 *Id.* Within the Korean Noodle portion of the United States instant ramen market, however, during
7 the relevant time period Nongshim and Ottogi accounted for 93.4% of the sales of Korean
8 Noodles. Mangum Decl. ¶ 107. This high level of concentration, according to plaintiffs, meant
9 that defendants jointly had the ability to raise prices for the distinct United States Korean Noodle
10 market. Mangum Decl. ¶ 108.

11 According to plaintiffs, the raw material costs for Korean Noodles manufactured in Korea
12 (looking to market data and Nongshim's own documents) remained fairly stable with slight
13 increases from 2000 through mid-2007, when raw material and fuel costs increased and production
14 costs increased starkly. Mangum Decl. ¶¶ 72-76. For noodles manufactured in the United States
15 by Nongshim, costs only rose slightly between 2006 and 2010. Mangum Decl. ¶ 78. According to
16 Mangum, the costs do not match or justify the increases in prices. Mangum Decl. ¶¶ 79-81. A
17 comparison between costs of goods sold (COGS) and prices by Mangum shows that the "delta"
18 between those measures almost tripled by the end of the conspiracy period, after removing
19 overhead costs. Mangum Reply Decl. ¶ 27 & Exhibit 29.1-R.

20 Defendants' expert Cox has a number of explanations for rising prices, which are in his
21 view inconsistent with a conspiracy to fix prices. He concludes that prices among all ramen
22 producers (including Japanese, Thai, and Chinese producers) rose during the relevant period,
23 rising 60% between 2005 and 2010 along. Cox Decl. ¶ 50. He also notes that demand for Korean
24 Noodles in the United States increased during the relevant time period, with Nongshim's sales in
25 the United States almost doubling between 2003 and 2010, while Ottogi's sales grew by a factor
26 of almost five during the same time period. Cox Decl. ¶¶ 52-53. Cox also focuses on profit
27 margins, asserting that Nongshim America's profit margin in the relevant timeframe fluctuated
28 from 0.3% to 4.7% (which was much lower than Japanese and United States-based competitors

1 during that timeframe). Cox Decl. ¶¶ 59-60. Cox also determined that Nongshim and Ottogi's
2 profit margins were very similar during the alleged collusive periods as compared to non-collusive
3 periods. Cox Decl. ¶ 62.

4 Plaintiffs contend that wholesale prices of Korean Noodles in the United States are set
5 according to price lists, which are not typically individually tailored, and any discounts are driven
6 by volume purchasing or early payment. Mangum Decl. ¶ 64. Defendants counter that Nongshim
7 set its prices for product manufactured in America by adding 3 to 5 percent on top of its costs, so
8 the prices after 2005 were driven by United States costs. Dosker Decl., Ex. 7. And while
9 Nongshim America modified its price list six times during the class period, each time the
10 implementation of the price change varied and "some types" of unidentified customers were not
11 affected. Cox Decl. ¶¶ 79, 110. Ottogi contends it used a number of different price lists for
12 different types of customers in different geographic areas. Jeong Decl. ¶ 6 & Exs. A, E, L. These
13 lists were modified during the class period numerous times, on different dates, and with respect to
14 different products for different customers. Jeong Decl. ¶ 8. Both defendants also deviated from
15 their prices lists by offering "frequent, substantial and unique" discounts and promotions. Jeong
16 Decl. ¶ 8; Cox Decl. Exs. 13.1-13.10, 14-1-14.5. Therefore, the actual price paid by a DPP
17 depended on any number of customer specific factors like customer type, type of product,
18 purchase volume, inventory level, season, and geographic location. Cox Decl. ¶¶ 87-89, 98.
19 Named DPPs admit that they received individualized discounts, but argue the discounts were
20 typically small and not a regular occurrence. Mangum Reply Decl. ¶¶ 133, 138. However, the
21 prices actually paid by the DPPs are documented in defendants' transaction data.

22 Defendants assert that there was even more variety in end-consumer prices because the
23 products were sold through a chain of intermediaries at different prices. Cox Decl. ¶¶ 308, 324.
24 Sometimes DPPs were retailers who sold directly to customers. Jeong Decl. ¶ 4. Other times,
25 distributors were DPPs who then sold to retailers who then sold to consumers. *Id.* Some retailers
26 bought both from Ottogi and also from distributors (and therefore are DPPs or IPPs, depending on
27 the purchase). *Id.*

B. The Alleged Price Fixing Conspiracy in Korea

1 Plaintiffs allege that starting at the end of 2000 or the beginning of 2001, representatives of
2 all four conspirators met at a hotel in Seoul and agreed to a specific protocol to raise factory-level
3 (wholesale) prices for their Korean Noodles.¹¹ It was agreed that Nongshim, as the market leader,
4 would generally increase prices first, and the other defendants would raise prices shortly
5 thereafter.¹² The defendants allegedly met again on March 28, 2001, where the companies'
6 executives had gathered to attend the Ramen Transaction Order Association (the "RTOA" or
7 "Ramen Conference"). According to plaintiffs, senior representatives from Nongshim, Ottogi,
8 Yakult, and Samyang met at least twice and discussed a "very broad" range of topics, but
9 specifically including Korean Noodle price increases and the need to "make sure" that the price is
10 appropriate "to make a profit."¹³

11 As a result of these meetings, plaintiffs allege that the conspirators implemented the price-
12 raising plan first discussed in the Seoul hotel. Nongshim would announce a price increase for its
13 Korean Noodles and the other companies would follow shortly thereafter.¹⁴ Pursuant to the
14 alleged conspiracy, Nongshim announced its first price increases on May 10, 2011, and the other
15 conspirators announced that they were "contemplating" price increases as well, and all of them
16 increased factory prices between May 14 and May 30, 2001. The conspirators agreed on five
17 subsequent price increases between October 2002 and April 2008. Mangum Decl. ¶¶ 40, 48. The
18 conspiracy ended in 2010 when Samyang took the lead in decreasing its prices to "apologize to
19

21 ¹¹ Cho Decl., Ex. 2 (Deposition of Jung-Soo Kim) at 38:9-15, 39:23-40:2.

22 ¹² *Id.* at 38:12-15 (Samyang executive reporting on meeting); *id.* at 41:15-18 ("[t]he report that I
23 received from" the meeting was that "if Nongshim raised the price, the other companies will
follow"); *id.* at 56:17-57:4.

24 ¹³ Cho Decl., Ex. 13 (Deposition of Soo-Chang Ahn) at 72:4-13; *id.* at 43:20-24; 59:15-60:2.
25 60:21-22; 64:9-11; 69:6-72:19; 77:7-80:10.

26 ¹⁴ See Cho Decl., Ex. 2 (Jung-Soo Kim Dep.) at 131:14-18 ("[I]f Nongshim raised the price, then
27 [Samyang] would raise price, and Ottogi would have raised the price after we raised our price.");
28 *id.* at 93:22-94:8 (agreeing there was a "consensus between Nongshim and Samyang and Ottogi
and Paldo that Nongshim should raise the price of Korean Ramen noodles and that Samyang,
Paldo, and Ottogi would then follow that price").

1 our customers" for the previous price increases.¹⁵ Plaintiffs' experts opine that the pricing
2 behavior of Korean Noodles during the class period by the conspirators is consistent with "price
3 leadership cartel behavior." Mangum Decl. ¶¶ 91, 93.

4 The Korean conspirators effectuated the conspiracy by sharing with each other non-public
5 pricing information and plans with respect to prices through in-person meetings, telephone
6 conversations, emails, and faxes.¹⁶ This included sensitive management and price-related
7 information, including sales results, business support strategies, plans for new product releases,
8 sales promotion and advertisement plans, in order to ensure that each company would agree to the
9 price increases.¹⁷ Plaintiffs contend that departments in each of the conspirator companies were
10 set up to effectuate the information exchange.¹⁸ Plaintiffs assert that while Nongshim and Ottogi
11 either negligently or intentionally destroyed records of the communications between them,
12 Samyang's marketing department maintained a portable hard drive on which it kept copies of
13 communications between the conspirators (Samyang Hard Drive).¹⁹

14 Defendants vigorously contest the allegations and evidence regarding a conspiracy. Much
15 of plaintiffs' evidence supporting the "information exchange" portion of the alleged conspiracy
16 comes from information on the Samyang Hard Drive. Defendants make numerous evidentiary
17

18 ¹⁵ Cho Decl., Ex. 2 (Jung-Soo Kim Dep.) at 92:12-17.

19 ¹⁶ Cho Decl., Ex. 13 (Soo-Chang Ahn Dep.) at 88:17-18.

20 ¹⁷ "Price list[s], competitors weekly trend report[s], DAUM mailbox or—and the competitors'
21 events, advertising campaign, and personnel or organizational chart, competitors' regular event,
22 competitors' price increase, competitors' new product, competitors' sales figures, competitors'
23 strategy." Cho Decl., Ex. 16 (Deposition of Jeong-Eun Park Dep.) at 65:10-17; *id.* at 17:13-16
24 (conspirators exchanged detailed information, including "[m]anagement strategy, price increase,
and sales strategy after price increase, [and] new product information"); *see also* Cho Decl., Ex.
54 (Deposition of Bong-Hoon Kim) at 128:13-16 ("[I]f we [Samyang] do not raise our price more
than a month after [Nongshim] raised their price, then we start getting calls from them or hearing
from them.").

25 ¹⁸ Cho Decl., Ex. 14 (Deposition of Jin-Woo Seo) at 16:10-16; Cho Decl., Ex. 2 (Jung-Soo Kim
26 Dep.) at 182:23-183:4 (market research team's purpose as "[n]ot just to exchange pricing
information, but also to learn about what is going on with the competitors. So learning about the
pricing change, price increase or decrease, would be one of the tasks of the team").

27 ¹⁹ Cho Decl., Ex. 16 (Jeong-Eun Park Dep.) at 16:11-16 (Samyang Hard Drive included
28 "information that [Samyang] exchanged with competitors with respect to Ramen"); *id.* at 27:3-
28:3.

1 objections to the authenticity and admissibility of documents from that drive, arguing that the hard
2 drive was corrupted, the records are unreliable, and defendants' witnesses uniformly testified they
3 did not recall or did not author various documents purportedly secured from the Hard Drive.

4 On the merits, defendants argue that the price of Korean Noodles was *de facto* controlled
5 by the Korean government because of its importance as staple food and the resulting impact prices
6 of ramen could have on the economy. Cox. Decl. ¶¶ 68-69. Under the government controls
7 existing at the relevant time, Nongshim as the market leader "petitioned" the government for
8 permission to raise prices in the Korean market. Only after numerous meetings, and only if the
9 government consented, could Nongshim raise its prices. Cox. Decl. ¶¶ 68-72.²⁰ Nongshim's
10 competitors treated Nongshim's newly raised prices as a ceiling and always stayed at or below it.
11 Cox Decl. ¶ 75. Defendants point out that while in July 2012 the Korean Fair Trade Commission
12 (KFTC) found that Nongshim, Ottogi, Samyang and Yakult conspired to raise prices and imposed
13 significant fines on them, that decision and the fines were overturned by the Korean Supreme
14 Court in December 2015.²¹

15 **II. THE IMPACT IN THE UNITED STATES**

16 Plaintiffs allege that the six price increases agreed to by the conspirators led to price
17 increases in the United States. Mangum Decl. ¶¶ 44-45; 138-146. Plaintiffs rely both on
18 defendants' admissions that United States prices were set based off of Korean prices,²² and on

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20 ²⁰ Plaintiffs argue that the Korean government's preapproval process was "not legally enforceable" and was used to provide only non-binding "administrative guidance." See Cho Supp. Decl., Exh. 3 (Declaration of Bong-ik Kim) (NSKHC00005269-70T)). Plaintiffs also argue that the guidance did not prevent price collusion at or below any government guided cap. Cho Supp. Decl., Exh. 14 (Deposition of Soo-Chang Ahn) at 164:16-166:10.

21 ²¹ The Korean Supreme Court determined there was insufficient evidence of an express concerted agreement to fix prices, based on a lack of direct, non-hearsay evidence regarding the alleged initiation meeting in 2000. Dosker Decl., Ex. 36. The Court also concluded there was insufficient evidence to show a tacit agreement to fix prices, in light of the history of government regulation of the ramen market, the history of the market share-dominant company (here Nongshim) increasing its prices and competitors following suit ("follow-the-leader-pricing"), and the differences in the amount of price increases and the timing of the price increases by the "followers" after Nongshim acted. *Id.* There is no discussion in the Supreme Court's decision of export markets or international markets.

22 ²² Cho Decl., Ex. 11 (NSK0134526T from 2008) at p. 2; Cho Decl., Ex. 37 (NSA0009654 from 2010) at NSA0009655; Cho Decl., Ex. 39 (NSKHC-K00000742T from 2003); Cho Decl., Ex. 43

1 evidence that price increases in the United States market followed closely after price increases in
2 the Korean market. Mangum Decl. ¶¶ 97, 98-99 (United States price increases uniformly followed
3 Korean ones, except with respect to first Nongshim Korea price increase [which was not
4 implemented in the United States market] and the 2006 Nongshim USA price increase [which did
5 not follow a Korean price increase]). With respect to the Nongshim products manufactured in the
6 United States, plaintiffs likewise allege that they were priced with reference to Korean prices.²³

7 Mangum, the DPPs' expert, relies on several factors to conclude that defendants' antitrust
8 conduct impacted DPPs in the United States: (i) information about the markets and the market
9 concentrations, and therefore, the power of defendants and the conspirators to raise prices in Korea
10 and in the United States; (ii) correlations between prices charged in Korea and the United States
11 by the conspirators; (iii) correlations between prices as they were raised in Korea and then in the
12 United States; and (iv) a multiple regression "hedonic" or "dummy variable" analysis showing for
13 each of the six price increases a positive and statistically significant coefficient. More specifically,
14 Mangum's econometric regression analysis shows that for 299 DPPs whose data was included in
15 the analysis, only 5 (or 2% of the class or 0.019 of total purchases) did not suffer prices higher
16 than Mangum's estimated but-for price (the more competitive, lower price that would have existed
17 but-for the antitrust conspiracy). Mangum Decl. ¶ 180. Using that base model analysis and
18 excluding the transactions that were not higher than the but-for price, Mangum calculates class-
19 wide aggregate damages on sales of \$393.6 million at \$115.7 million, and asserts that the products
20 were priced on average 44% higher than they should have been in the but-for world. Mangum
21 Decl. ¶¶ 177, 187.

22 Ackerberg, the IPPs' expert, concludes that defendants' antitrust conduct impacted IPPs in
23 the United States by relying on a similar model as Mangum, except that he uses an averaged price
24 index (calculated on a monthly basis across different product groups) and a monthly

25
26 (OTGKR-0020731T and OTGKR-0020732T-37T from 2008); Cho Decl., Ex. 42 (OTGKR-
0018885T from 2010); Cho Decl., Ex. 45 (OTGAM-0040220T—21T from 2010).

27
28 ²³ Cho Decl., Ex. 44 (NSA0015298) (undated pricing spreadsheet); *see also* Cho Decl., Ex. 11
(NSK0134526T) at p. 2 (meeting minutes between NSK and NSA employees from November
2008).

1 manufacturing cost index. Based on Ackerberg's regression model with his different inputs,
2 Ackerberg determined that DPPs suffered an average overcharge of 31.3% and \$130,358,002 in
3 overcharge damages. Ackerberg Decl. at 35. He also provides a lower estimate of aggregate
4 damages if a nationwide class is not certified under California law. *Id.* at 36. Ackerberg opines
5 that wholesalers and retailers passed on 100% of the overcharges to the IPPs based on (i)
6 testimony from retailers as well as an analysis of manufacturer prices compared to the retail price
7 paid and (ii) a review of sample data from distributors and retailers which showed pass on rates
8 between 93% to 138%. For purposes of his damages estimate, he uses a conservative 100% rate
9 as the pass-through. Ackerberg Decl. at 30-35.

10 Defendants challenge the reliability of plaintiffs' experts' opinions and seek to exclude
11 them under *Daubert*. Defendants' expert Cox seeks to undermine Mangum's showing on impact
12 in the United States by arguing that Mangum's model is based on inaccurate prices and artificial
13 costs estimates, and that any price increases were the result of increases in costs (because of
14 increasing demand, increased marketing expenditures, and increases in fixed costs) and not
15 collusion. Cox argues that Mangum's analysis is fatally flawed because: (i) he did not consider
16 the actual price paid by DPPs after discounts and incentives; (ii) he artificially inflated his but-for
17 price to support an unrealistic conclusion that there was an average 44% overcharge during the
18 class period; and (iii) his hedonic or "dummy variable" model was constructed without the
19 appropriate variables, undermining its predictive value.

20 Defendants attack Ackerberg on similar grounds, adding that Ackerberg failed to control
21 appropriately for costs in part because he improperly averaged costs among products when costs-
22 per-product varied widely and he averaged costs between Nongshim and Ottogi when their costs
23 differed significantly. Cox Decl. ¶¶ 157-168. As with Mangum, Cox also argues that the prices
24 used by Ackerberg do not take into account the actual prices paid including significant discounts
25 and incentives. Cox Decl. ¶ 181. With respect to the IPPs more specifically, Cox faults
26 Ackerberg's "pass-through" analysis because: (i) it rests on his and Mangum's faulty assumption
27 that there was classwide impact; (ii) his pass-through analysis (finding pass-through rates between
28 93 to 138 percent) was based on a far-too limited dataset (2 retailers and 2 wholesalers); and (iii)

1 Ackerberg ignores intermediaries. Cox Decl. ¶¶ 306, 307, 328. Finally, Cox criticizes
2 Ackerberg's attempt to allocate damages to specific states according to their Korean population,
3 which contradicts facts showing increasing purchases by Hispanic and other non-Korean
4 customers in the relevant timeframe. *Id.* ¶¶ 335-336.

5 Cox performs his own analysis to establish a but-for price, based on a "more general"
6 "forecasting" approach (contrasted with Mangum and Ackerberg's "dummy variable" approach)
7 relying on observed data in the non-collusive period. Cox Decl. ¶¶ 204-205; Mangum Reply Decl.
8 ¶ 160. Under Cox's approach, the but-for prices are much closer to the real world prices charged
9 in the conspiracy period (and sometimes exceeded actual prices). Cox Decl. ¶ 243. Cox also ran
10 Mangum's and Ackerberg's models after "correcting" for alleged "errors" in prices and costs,
11 showing an average overcharge from Mangum's model of just 1.85% and classwide damages at \$7
12 million. Cox Decl. ¶ 245. That analysis also reduced Ackerberg's average overcharge to 7.2%
13 and classwide damage to \$27.4 million. Cox Decl. ¶ 249. Cox emphasizes that both of these
14 partially "corrected" calculations still overstate the damages because not all errors could be
15 corrected using Mangum and Ackerberg's models. When Cox used his "improved costs and
16 prices data" and tests specifically for whether the conspiracy impacted different types of
17 consumers differently, that analysis shows negative impact, zero impact, and positive impact
18 which varied according to the size of the purchases made by the consumer. *Id.* ¶¶ 253, 279-280.
19 All of this, according to Cox, "implies" that plaintiffs' expert models "as presented" are incapable
20 of reliably estimating overcharges across all proposed class members. *Id.* ¶ 255.

21 Mangum and Ackerberg charge Cox with his own set of errors and over-estimations. With
22 respect to Cox's model, plaintiffs' experts criticize Cox's approach as less precise (because it uses
23 less data) and less flexible (it is unable to account for more factors). Mangum Reply Declaration
24 (Dkt. No. 466-8) ¶¶ 50, 164; Ackerberg Rebuttal Declaration (Dkt. No. 473-2) at 26-27. With
25 respect to Cox's assertion that their results are "untenable," Ackerberg argues that Cox's reliance
26 on defendants' own reports of their net and gross profit margins (to assert plaintiffs' models would
27 have them operating at a loss) is misplaced because Cox's use of "accounting costs" as opposed to
28 "true costs" is not reliable. Ackerberg Reb. Decl. at 33. With respect to pricing differentials,

1 Mangum points out that Cox's samples – used by Cox to show large differences in prices paid by
2 DPPs – are themselves extreme and not typical, and presents counter-evidence that the “vast
3 majority of prices” fall within a narrow corridor where variables are driven mostly by geography.
4 Mangum Reply Decl. ¶¶ 52-59, 62, 66.

5 In his reply declaration, Mangum clarifies that his prior cost index was the best measure he
6 had at the time of his initial report based on his incomplete data, but that with the production of
7 additional information from defendants, he was able to construct a more refined cost series based
8 on product-specific costs but with a focus on volume (which Cox allegedly continues to ignore)
9 and also to refine his model to account for lag due to transportation time. Mangum Reply Decl. ¶¶
10 75, 114. He disputes Cox's characterization of his analysis as ignoring or under-assessing
11 discounts and promotions in prices. Mangum Reply Decl. ¶¶ 123-128. Running his regression
12 model with the refined data, Mangum still shows overcharges ranging between 29% and 38%.
13 Mangum Reply Decl. ¶¶ 197-200. Under that refined analysis, less than 1.5% of total purchasers
14 were not impacted by the overcharges, accounting for 0.01% of all transactions. *Id.* 203.
15 Damages for the class under the refined data set were \$83,642,717. *Id.* ¶ 204.

16 In his rebuttal declaration, Ackerberg responds to some of the criticisms and also uses
17 more refined cost measures (based on additional cost data provided by defendants), adds a new
18 dummy variable to address post-collusion behavior, and included a lag time for costs (to account
19 for shipping). Ackerberg Reb. Decl. at 20-24. Those refinements did not materially change his
20 conclusion of impact, and still showed an overcharge ranging between 30% and 31.5%.
21 Ackerberg Reb. Decl. at 32. Ackerberg also defends his pass-through calculations and points out
22 that Cox's own analysis supports a finding that all retailers passed the overcharges through and
23 does nothing to undermine Ackerberg's use of a conservative 100% pass-through rate. *Id.* at 35-
24 37. Finally, Ackerberg defends his use of Korean population as an initial way to address
25 allocation of damages between states, but acknowledges that his model can accommodate other
26 ethnicities as well, including the growing sales to Hispanic and other populations. *Id.* at 38.

27 In his Reply declaration (to which plaintiffs' experts did not have an opportunity to
28 respond), Cox uses new information from Nongshim employees to support his argument that

1 Mangum and Ackerberg undercounted discounts. Cox Reply Declaration (Dkt. No. 476-8) ¶¶ 50-
2 58. Based on this new information, he also alleges plaintiffs' experts double or triple counted
3 some purchases. Cox Reply Decl. ¶¶ 59-64. Finally, Cox strengthens his criticism of the
4 plaintiffs' regression models for an excessive amount of multicollinearity and their failure to
5 consider important variables. Cox Reply Decl. ¶¶ 7-29.

6 **III. CLASSES SOUGHT TO BE CERTIFIED**

7 The DPPs seek to certify the following class:

8 All persons and entities in the United States and its territories who
9 purchased Korean Noodles directly from Defendants Nong Shim
10 Co., Ltd., Nongshim America, Inc., Ottogi Co., Ltd., or Ottogi
11 America, Inc. at any time from April 1, 2003 through January 31,
12 2010. The Class excludes the Defendants Samyang Foods Co., Ltd.,
Samyang (USA), Inc., Korea Yakult, Co., Ltd., Paldo Co., Ltd. and
any of their current or former parents, subsidiaries or affiliates. The
Class also excludes all judicial officers presiding over this action
and their immediate family members and staff, and any juror
assigned to this action.

13 DPP Mot. at 2.

14 The IPPs seek to certify the following class:

15 All persons and entities that purchased "Korean Ramen Noodles"
16 anywhere in the United States [or such subset of the United States
market as the Court may elect to certify] for their own use and not
17 for resale, from March 1, 2003 through January 31, 2010. For
18 purposes of this definition, "Korean Ramen Noodles" means
19 Nongshim, Ottogi and Samyang branded bag, cup or bowl ramen,
including fried, dried, fresh and frozen noodle products. Specifically
20 excluded from this class are any Defendant; the officers, directors,
or employees of any Defendant; any entity in which any Defendant
21 has a controlling interest; and any affiliate, legal representative, heir,
or assign of any Defendant. Also excluded are the judicial officers to
whom this case is assigned and any member of such judicial
officers' immediate family.

22 IPP Mot. at i.

23 **LEGAL STANDARD**

24 **I. EXCLUSION OF EXPERT OPINIONS UNDER DAUBERT**

25 Federal Rule of Evidence 702 allows a qualified expert to testify "in the form of an opinion
26 or otherwise" where:

27 (a) the expert's scientific, technical, or other specialized knowledge
28 will help the trier of fact to understand the evidence or to determine
a fact in issue;

- (b) the testimony is based on sufficient facts or data;
- (c) the testimony is the product of reliable principles and methods;
and
- (d) the expert has reliably applied the principles and methods to the facts of the case.

Fed. R. Evid. 702.

Expert testimony is admissible under Rule 702 if it is both relevant and reliable. *See Daubert v. Merrell Dow Pharm., Inc.*, 509 U.S. 579, 589 (1993). “[R]elevance means that the evidence will assist the trier of fact to understand or determine a fact in issue.” *Cooper v. Brown*, 510 F.3d 870, 942 (9th Cir. 2007); *see also Primiano v. Cook*, 598 F.3d 558, 564 (9th Cir. 2010) (“The requirement that the opinion testimony assist the trier of fact goes primarily to relevance.”) (internal quotation marks omitted).

Under the reliability requirement, the expert testimony must “ha[ve] a reliable basis in the knowledge and experience of the relevant discipline.” *Primiano*, 598 F.3d at 565. To ensure reliability, the court must “assess the [expert’s] reasoning or methodology, using as appropriate such criteria as testability, publication in peer reviewed literature, and general acceptance.” *Id.* These factors are “helpful, not definitive,” and a court has discretion to decide how to test reliability “based on the particular circumstances of the particular case.” *Id.* (internal quotation marks and footnotes omitted). “When evaluating specialized or technical expert opinion testimony, the relevant reliability concerns may focus upon personal knowledge or experience.” *United States v. Sandoval-Mendoza*, 472 F.3d 645, 655 (9th Cir. 2006).

The inquiry into the admissibility of expert testimony is “a flexible one” where “[s]haky but admissible evidence is to be attacked by cross examination, contrary evidence, and attention to the burden of proof, not exclusion.” *Primiano*, 598 F.3d at 564. “When the methodology is sound, and the evidence relied upon sufficiently related to the case at hand, disputes about the degree of relevance or accuracy (above this minimum threshold) may go to the testimony’s weight, but not its admissibility.” *i4i Ltd. P’ship v. Microsoft Corp.*, 598 F.3d 831, 852 (Fed. Cir. 2010). The burden is on the proponent of the expert testimony to show, by a preponderance of the evidence, that the admissibility requirements are satisfied. *Lust By & Through Lust v. Merrell*

1 *Dow Pharm., Inc.*, 89 F.3d 594, 598 (9th Cir. 1996); *see also* Fed. R. Evid. 702 Advisory Cttee.
2 Notes.

3 **II. CLASS CERTIFICATION**

4 Class actions are governed by Rule 23 of the Federal Rules of Civil Procedure. Plaintiffs
5 bear the burden of showing that they have met each of the four requirements of Rule 23(a) and at
6 least one subsection of Rule 23(b). *Berger v. Home Depot USA, Inc.*, 741 F.3d 1061, 1067 (9th
7 Cir. 2014) (citing *Zinser v. Accufix Research Inst., Inc.*, 253 F.3d 1180, 1186 (9th Cir. 2001)). The
8 plaintiff “must actually prove – not simply plead – that their proposed class satisfies each
9 requirement of Rule 23, including (if applicable) the predominance requirement of Rule 23(b)(3).”
10 *Halliburton Co. v. Erica P. John Fund, Inc.*, 134 S.Ct. 2398, 2412 (2014) (citing *Comcast Corp v.*
11 *Behrend*, 133 S.Ct. 1426, 1431-32 (2013); *Wal-Mart Stores, Inc. v. Dukes*, 131 S.Ct. 2541, 2551-
12 52 (2011)).

13 The court’s “class certification analysis must be rigorous and may entail some overlap with
14 the merits of the plaintiff’s underlying claim.” *Amgen Inc. v. Connecticut Retirement Plans and*
15 *Trust Funds*, 133 S.Ct. 1184, 1194 (2013) (quoting *Dukes*, 131 S.Ct. at 2551 (internal quotation
16 marks omitted)). These analytical principles govern both Rule 23(a) and 23(b). *Behrend*, 133
17 S.Ct. at 1342. However, “Rule 23 grants courts no license to engage in free-ranging merits
18 inquiries at the certification stage.” *Amgen*, 133 S.Ct. at 1194-95. “Merits questions may be
19 considered to the extent – but only to the extent – that they are relevant to determining whether
20 Rule 23 prerequisites for class certification are satisfied.” *Id.*

21 As the Ninth Circuit clarified in *Ellis v. Costco Wholesale Corp.*, 657 F.3d 970, 982 (9th
22 Cir. 2011), simply because an expert opinion clears the “scientifically reliable and relevant” hurdle
23 of *Daubert*, does not mean it passes the “rigorous analysis” required by Rule 23 to support class
24 certification. Instead, at class certification a court must determine whether the expert’s evidence
25 supporting certification is persuasive following a rigorous analysis of the same. *Id.* at 983-84. As
26 part of that rigorous analysis, a court may be required to resolve factual disputes between the
27 plaintiffs’ and defendants’ experts if those disputes go to whether or not the injury at issue can be
28 shown on a classwide basis. *Id.*

1 Under Rule 23(a), the class may be certified only if: (1) the class is so numerous that
2 joinder of all members is impracticable, (2) questions of law or fact exist that are common to the
3 class, (3) the claims or defenses of the representative parties are typical of the claims or defenses
4 of the class, and (4) the representative parties will fairly and adequately protect the interests of the
5 class. *See Fed. R. Civ. P. 23(a).* A plaintiff must also establish that one or more of the grounds for
6 maintaining the suit are met under Rule 23(b): (1) that there is a risk of substantial prejudice from
7 separate actions; (2) that declaratory or injunctive relief benefitting the class as a whole would be
8 appropriate; or (3) that common questions of law or fact predominate and the class action is
9 superior to other available methods of adjudication. *See Fed. R. Civ. P. 23(b).*

DISCUSSION

I. DPP MOTION FOR CLASS CERTIFICATION

12 Defendants do not contest numerosity, and I find the proposed class is numerous as it
13 includes approximately 229 DPP entities. Mangum Decl. ¶ 180. Defendants do not contest
14 ascertainability or adequacy of plaintiffs' counsel, and I find that the DPP class members are
15 ascertainable and the proposed class representatives and their law firms are adequate under Rule
16 23(a).²⁴

17 Instead, defendants argue that individual questions predominate as to both injury and
18 damages, and that the named DPP class representatives are not typical and cannot represent the
19 larger DPP class.

A. Predominance of Common Questions under Rule 23(b)(3)

Defendants do not dispute that plaintiffs will attempt to show through common, classwide proof the existence and nature of the conspiracy (although they vigorously dispute that a conspiracy existed). The question is whether plaintiffs have shown that they will be able to prove injury and damages through common proof. Defendants contend that individualized issues as to

1 injury and damages will swamp the otherwise common questions.

2 **1. Injury**

3 Plaintiffs argue that have shown that they will be able to provide injury on a classwide
4 basis through three types of proof: (i) contemporaneous evidence, including defendants' own
5 documents and documents of their co-conspirators demonstrating the conspiracy in Korea and
6 price increase patterns in Korea correlated to price increases in the United States; (ii) market
7 evidence showing the Korean Noodle market is highly concentrated, and given their market
8 shares, defendants has the power to jointly raise prices; and (iii) Mangum's econometric
9 regression analysis of market data.

10 **a. Mangum's Regression Analysis**

11 Actual Price: Defendants first attack the validity of Mangum's model based on Mangum's
12 failure to consider discounts and incentives provided to DPPs. Cox Decl. ¶¶ 179-82. Because of
13 price variability based on defendants' promotions and individual DPPs' purchasing power and
14 negotiated discounts, according to Cox, determination of antitrust injury for each DPP requires
15 individualized analyses. Cox Decl. ¶¶ 270-97. Without taking into account the actual prices paid,
16 defendants argue that Mangum's model fails to accurately determine whether class members were
17 injured.

18 The DPPs respond that the discounts have generally been accounted for in the transactional
19 data provided by defendants and considered by Mangum. Mangum Reply Decl. ¶ 116.²⁵ They
20 add that even if discounts were not fully addressed by Mangum, Cox admitted that the impact of
21 the discounts is "relatively small" and would not undermine Mangum's conclusion that classwide
22 injury and damage occurred. Supplemental Declaration of Stephanie Y. Cho (Dkt. No. 466-7),
23 Ex. 2 (Deposition of Alan Cox.) at 154:19-155:2.²⁶

24

25 ²⁵ Plaintiffs contend that it is Cox's model that contains an error by counting discounts twice. *Id.* ¶ 116. More specifically, Mangum criticizes the discount figures Cox uses as based on discounts provided in the post-conspiracy period but applied to the pre-2005 period where there no evidence of discounts. Mangum Reply Decl. ¶¶ 137, 141-142.

26 ²⁶ That is likely, according to plaintiffs, because defendants' own transaction data show that few customers received discounts and most transactions were not discounted. Mangum Decl. ¶¶ 139-141; Mangum Reply Decl. ¶ 137.

1 In a reply declaration, which plaintiffs did not have an opportunity to address in their
2 briefing, Cox contends that on his *re-review* of the Nongshim USA data (and with the benefit of
3 additional information provided by Nongshim employees to interpret the transaction and discount
4 data), his suspicions that Mangum failed to account for all of the discounts were confirmed. That
5 is because only some of the transaction data relied on by Mangum (and by Cox initially) show net
6 discounts, but there were “many transactions where the discount clearly was not included in the
7 net sale price” because of how actual discounts were listed in the discount and transaction
8 databases provided by Nongshim. Cox Reply Decl. ¶¶ 51-52. As a result of Mangum’s (and
9 Ackerberg’s) misinterpretation of the data, according to Cox, plaintiffs ignored \$1.7 million in
10 discounts, in addition to ignoring \$2.4 million in promotions (because as Mangum admitted, there
11 was no classwide way to account for promotions). *Compare* Cox Reply Decl. ¶ 57 with Mangum
12 Reply Decl. ¶¶ 122-123.

13 That said, there is no evidence that these omissions are *material* to the question of injury or
14 ability to prove classwide injury. Not only did Cox admit in deposition that defendants’ discounts
15 and incentives had a “small impact,” even *after* determining that plaintiffs’ experts failed to take
16 into account \$4.1 million in discounts/incentives, but also he does not assert or show in his reply
17 declaration that the omitted the \$4.1 million has a material impact on plaintiffs’ experts’ models
18 and finding of classwide harm. Instead, the relevance of the omitted discounts/incentives,
19 according to Cox, is simply further proof of allegedly wide “price dispersion” that in Cox’s
20 opinion is inconsistent with allegations of a price-fixing conspiracy and creates individualized
21 issues. Cox Reply Decl. ¶¶ 69-70. When pressed during oral argument on the motions for class
22 certification, defense counsel admitted that in their view the impact of Mangum’s omission of the
23 \$4.1 million in discounts/incentives was to bolster their argument that Mangum’s models and
24 analyses were incomplete and therefore unreliable. Transcript of Oral Argument at 29:10-20;
25 47:21-48:3.

26 For current purposes – which is to assess whether the DPPs have put forth a reliable
27 methodology to show impact on classwide basis – the allegedly ignored discounts/incentives have
28 not been shown to be so sizable that they would undermine the reliability of Mangum’s model (or

1 its showing of classwide impact) or Mangum's general approach.²⁷ As the transaction and
2 discount data is further clarified and reviewed, that revised data can be accommodated by
3 Mangum's model.

4 As to the price dispersion issue, while truly wide price dispersions between DPPs might
5 undermine *in part* allegations of a price-fixing conspiracy,²⁸ the evidence of the width of those
6 dispersions is not clear. In his reply, Mangum points out that many of the data points Cox uses in
7 an attempt to show prices vary widely are outliers that represent under 1% of the transactions
8 because Cox fails to account for *volume* when modeling price dispersion; the existence of price
9 dispersion does not undermine Mangum's showing as to impact. Mangum Reply Decl. ¶¶ 63-66.

10 In short, defendants have not shown that the alleged failure of the DPPs to account for
11 discounts/incentives and "actual price" materially impacts their preliminary classwide showing as
12 to injury (or the utility of their regression model) to such a degree that Mangum's opinion should
13 be excluded under *Daubert* or his determination of classwide impact discounted.

14 But-For Price: Defendants also attack Mangum's but-for price, arguing that he chose not
15 to use actual data but instead based his but-for cost price on an average of production costs for
16 dozens of Nongshim America products. Cox Decl. ¶ 155. According to defendants, this approach
17 downplays the significance of differences between products' ingredients and other production
18 costs (e.g., bag vs. vs. cup vs. bowl). Mangum Decl. ¶¶ 171-172. Cox argues that Mangum's
19 approach is faulty because production costs vary between \$0.20 to \$1.26 per unit. Cox. Decl. ¶
20 161. As Mangum failed to use product-specific costs for his model, Cox argues that Mangum's
21 model assumes but does not prove injury across the different categories of products. Cox Decl. ¶¶
22 220, 286, 298-304.

23 In his reply declaration, Mangum justifies his average costs approach by noting that he
24

25 ²⁷ The same is true of Cox's allegation – first raised in his Reply Declaration – that plaintiffs
26 double or triple counted certain transactions because of their failure to differentiate between
purchase entries and discount entries in the data.

27 ²⁸ According to Cox in typical price-fixing conspiracies, there is little price dispersion as prices
28 have been agreed to by the conspirators. Cox Decl. ¶ 44. The allegations here, however, are not
that prices will be identically fixed, but that prices will be raised in a coordinated fashion.

1 used a “weighted costs series,” an approach that Cox admitted reasonably accounts for and is
2 appropriately used where a business produces different products with different costs (as here).
3 Mangum Reply Decl. ¶ 71; *see generally id.* ¶¶ 78-82.²⁹ And when Mangum uses Cox’s preferred
4 cost series in his model, the result is roughly the same, showing 97% of class members were
5 injured during the conspiracy. Mangum Reply Decl. ¶ 202. Plaintiffs also assert that Mangum
6 was correct in not using Cox’s proposed “six-month rolling costs” averages to take account of the
7 lag between manufacture, transit, and sale (use of which significantly reduces the showing of
8 classwide impact). They argue that Mangum’s use of a lag approach, whereby costs are shifted by
9 two to three months to accommodate transit and sale, is more appropriate especially given shelf
10 life issues for the perishable products at issue. Mangum Reply Decl. ¶¶ 105-110. Mangum uses
11 that lag approach in support of his reply, as part of his “refinement” of his costs inputs, and his
12 model continues to show significant classwide impact.

13 Finally, defendants criticize Mangum because he ignored Ottogi cost data altogether, and
14 they argue Mangum should have followed Cox’s lead and used actual Ottogi cost information
15 post-2006 and transfer pricing information between Ottogi and Ottogi Ramen (the company who
16 manufactured all of Ottogi’s ramen during the relevant timeframe) to estimate pre-2006 costs.
17 Mangum admits that he did not incorporate Ottogi data, but explains that decision is a rational one
18 because: (a) Ottogi-specific cost data was only produced starting in 2006 (and using only a partial
19 data set could lead to unexplained and invalidating differences and require finding an appropriate
20 proxy for the earlier dates); (b) Nongshim’s data was broken down into “smaller constituent
21 components” where Ottogi’s data was grouped into 3 larger categories (and therefore more
22 susceptible to problems comparing Nongshim and Ottogi information); and (c) Nongshim Korea
23 data provided an appropriate proxy for Ottogi. Mangum Reply Decl. ¶¶ 95-99. Indeed,

24

25 ²⁹ Mangum also compared his weighted cost series to actual transaction prices for wheat,
26 vegetable oil, and labor reported by the Korean government. Mangum Reply Decl. ¶¶ 71-73, 75-
27 76. This data was not included in the model, but used only to double-check the accuracy of cost
28 data reported by defendants. Mangum Reply Decl. ¶ 73. While defendants attempt to criticize
Mangum for his double-check measures (*e.g.*, Mangum should have used palm oil, not vegetable
oil), defendants provide no examples of specific costs that were not accounted for or under
accounted for by Mangum that would have made a material difference had they been considered.

1 defendants do not show how Mangum’s use of Nongshim cost data either *actually* skewed or
2 otherwise undermined the reliability of his model and conclusions.

3 Defendants’ criticisms as to Mangum’s costs, and the role they play in setting his but-for
4 price, rest primarily on disputes of fact and the reasonableness of assumptions made by the experts
5 on both sides. There is nothing in Mangum’s approach that fatally undermines the reliability of
6 his methodology or model such that Mangum’s opinion should be excluded under *Daubert* or his
7 determination of classwide impact significantly discounted.

8 Wrong Model/Wrong Variables: Another “intractable error” in Mangum’s approach,
9 according to defendants, is his use of the hedonic/dummy variable approach to estimate
10 overcharges without using appropriate variables; namely, he uses variables that are highly
11 correlated to each other and erase the model’s predictive values. Cox Decl. ¶¶ 206-219
12 (discussing “multicollinearity”). In other words, Mangum allegedly uses as variables facts which
13 have legitimate, not illegitimate, effects on price, thereby reducing the model’s ability to
14 determine impact from price collusion (*i.e.*, facts which correlate to costs of manufacture, changes
15 in the Korean population, etc.).

16 Generally, disputes about the appropriate degree of collinearity in a regression model do
17 not defeat class certification. *See, e.g., In re High-Tech Employee Antitrust Litig.*, No. 11-CV-
18 02509-LHK, 2014 WL 1351040, at *21 (N.D. Cal. Apr. 4, 2014) (“Other courts have admitted
19 regressions even in the face of expert disagreement regarding whether collinearity posed a
20 problem. . . . This is not surprising given that the concept of collinearity is not a methodology, but
21 a common phenomenon that results when using the methodology of regression analysis.” (citation
22 omitted)); *In re Air Cargo Shipping Servs. Antitrust Litig.*, No. 06-MD-1175 JG VVP, 2014 WL
23 7882100, at *19 (E.D.N.Y. Oct. 15, 2014), report and recommendation adopted, No. 06-MD-1775
24 JG VVP, 2015 WL 5093503 (E.D.N.Y. July 10, 2015) (“The fact that Kaplan’s model may be
25 tainted by multicollinearity goes purely to its weight, and is not a reason to strike it.”).³⁰ The DPPs

26
27 ³⁰ Defendants rely on cases where expert models were excluded under Rule 702 if “severe”
28 multicollinearity was shown to exist. *See, e.g., Reed Const. Data Inc. v. McGraw-Hill Companies,
Inc.*, 49 F. Supp. 3d 385, 405 (S.D.N.Y. 2014), *aff’d*, 638 F. App’x 43 (2d Cir. 2016) (excluding
expert’s method, in part, because of severe multicollinearity). At oral argument, defendants

1 and Mangum assert that some degree of collinearity is permissible and only perfect collinearity
 2 creates a problem (which did not occur with the variables in Mangum's model). Mangum Reply
 3 Decl. ¶¶ 15, 153-60.

4 While Cox's reply declaration in support of defendants' *Daubert* motion focuses
 5 significantly on multicollinearity, his contentions rest in large part on the parties' dispute over
 6 which "costs" should be used in the variables (*i.e.*, Cox's six-month averaged costs or Mangum's
 7 two month lagged revised costs). *See* Cox Reply Decl. ¶¶ 11-12, 16, 30-31; *see also* id. ¶¶ 18-19
 8 (using Cox's costs and reviewing only Ottogi's purchases, shows little statistical significance,
 9 supporting Cox's theory that the overcharge allegations are driven by Nongshim's prices and not
 10 by an actual conspiracy). Cox's multicollinearity argument also rests to a lesser extent on whether
 11 Mangum's other variables correlate too much in a legitimate manner with price increases, a topic
 12 of dispute between the experts.³¹

13 In sum, defendants have not shown that alleged errors by Mangum fatally undermine his
 14 showing of classwide injury or that his model/approach is unreliable.

15 **b. Correlation Analysis**

16 Finally, defendants criticize Mangum's confirmation of his model's conclusions by
 17 looking to correlation analyses between prices of products and prices as raised in Korea and the
 18 United States. Mangum's correlation analysis, according to Cox, is itself riddled with mistakes,
 19 including imputing a United States effect on pricing decisions made in the Korean domestic
 20 market, relying only on Nongshim data, not using actual price data (with discounts/incentives),

21
 22 characterized the degree of collinearity in Mangum's model as "severe," but Cox says only the
 23 collinearity is "significant" and never characterizes it as "severe."

24
 25
 26
 27
 28 ³¹ Cox uses a different, allegedly more "general" approach called the "forecasting approach" that
 24 freezes in place the market dynamics existing at the end of the benchmark period, but does not
 account for changes during that period, including Ottogi America's creation and Nongshim's
 United States production facility. *Compare* Cox Decl. ¶¶ 242-55; *with* Mangum Reply ¶ 164-66.
 Cox also argues that Mangum's model produced an average overcharge that is 26 points different
 than Cox's, after Cox adjusted it to take into account the proper variables. Cox Decl. ¶¶ 157-58,
 284. But Cox does not dispute that Mangum's model – even after "correction" by Cox—still
 shows significant classwide injury. Instead, Cox argues that Mangum's model should have
 included a variable accounting for increased marketing to explain the growth in demand and price.
 Cox Reply. Decl. ¶ 27.

1 and ignoring correlations in price changes (degree of change) by looking only to price (absolute
2 price point). Once Cox corrects those “errors,” he finds very little correlation between the
3 percentage price changes between Korean ramen suppliers and the American affiliates. Cox Decl.
4 ¶¶ 111-12.³² Mangum not surprisingly characterizes Cox’s correlation analysis as impaired by its
5 inclusion of faulty data and assumptions, including use of a too short window for comparing price
6 changes (daily or weekly), where Mangum uses a longer window (during each six month interval)
7 because the United States price changes did not immediately follow the Korean ones, but took
8 effect within a six month window. Mangum Reply Decl. ¶¶ 36-42.

9 Plaintiffs also defend Mangum’s model’s conclusions by reference to Cox’s own analysis
10 that the delta between the prices charged in the United States and the costs of goods manufactured
11 increased substantially between the benchmark period and the last conspiracy period. Cox Rep.,
12 Ex. 12.2. Mangum in his reply declaration used Cox’s approach as a rough “sanity check” and
13 concluded that the delta between price and COGS tripled during the overcharge period, supporting
14 his conclusion that there was a 44% overcharge during the conspiracy. Mangum Reply Decl. ¶¶
15 69-72, Ex. 29.1-R (using Cox’s assumptions).

16 In response, defendants argue that 44% overcharge estimate is itself incredible when the
17 defendants never achieved a net profit margin over 10% or a gross profit even approaching that
18 much. But as Mangum explains, net/gross profits are imprecise metrics in part because
19 accounting techniques can “hide” true costs and profits, and that here facilities expansion took up
20

21 ³² Defendants point to a case where Mangum’s testimony was rejected. In *In re Florida Cement*
22 & *Concrete Antitrust Litig.*, No. 09-23187-CIV, 2012 WL 27668 (S.D. Fla. Jan. 3, 2012),
23 Mangum attempted to extrapolate classwide injury by using average list prices without – as here –
24 considering the discounts or price deviations. The court rejected that approach, because “Dr.
25 Mangum did not conduct any significant analysis at the individual customer level to determine
26 whether any price changes were consistent across the putative Class.” *Id.* at *9. Plaintiffs
27 distinguish *Florida Cement* by pointing out that the evidence in that case showed that many
28 customers’ actual prices did not correspond with defendants’ increased prices, which is not the
situation here. In *Florida Cement*, Mangum’s correlation analyses were also rejected because they
were based on “average monthly prices” but Mangum “offers no explanation as to how this
analysis of ‘average monthly price’ establishes that individual customers were affected by the
purported conspiracy,” and his model showed negative correlation when a separate analysis was
done for prices paid by the ten largest customers, indicating the aggregate analysis was faulty. *Id.*
at *10. No such analysis is provided by or suggested by defendants here. Most importantly, in
Florida Cement, Mangum did not provide a regression analysis, which he did here. *Florida
Cement* is not persuasive.

1 much of the profit being made. Magnum Reply Decl. ¶ 27 & n.34. Therefore, according to
2 Mangum, looking to the growing delta between price and COGS is more instructive.

3 Again, in the end, the parties' disputes' regarding the reliability and the conclusions to be
4 drawn from the experts' regression models and correlations comes down to which experts input
5 the more plausible facts and used the right assumptions to determine costs. DPPs have presented a
6 methodology to show classwide antitrust impact from the alleged conspiracy and proven its
7 relevance and reliability by a preponderance of the evidence. Defendants have not shown that
8 errors in Mangum's methodology or in the resulting modeling fatally undermine its reliability so
9 that his opinions based on his model should be excluded.

10 **c. Contemporaneous Evidence and Market Evidence**

11 Plaintiffs also rely on anecdotal evidence of the existence of the conspiracy and its impact
12 on the United States market to reinforce their econometric showing. *In re High-Tech Employee*
13 *Antitrust Litig.*, 985 F. Supp. 2d 1167, 1217 (N.D. Cal. 2013), Judge Koh recognized the
14 established proposition that "the importance of these statistical models is diminished in light of the
15 extensive documentary evidence that supports Plaintiffs' theory of impact," including direct and
16 anecdotal evidence. *Id.* The direct and anecdotal evidence of the conspiracy in Korea and its
17 *impact* in the United States market is significant, but not by any means extensive.

18 Defendants argue that the evidence of the Korean conspiracy is undermined by the realities
19 of the Korean pricing system and government controls, as found by the Korean Supreme Court
20 when it overturned the contrary KFTC findings. They also note that plaintiffs have presented no
21 evidence that the alleged conspiracy was aimed at the United States market. DPPs do not contest
22 that there is no direct evidence of a conspiracy aimed at the United States, but say that their
23 evidence is sufficient because it shows that the prices in the United States market were set based
24 off of prices in the Korean market.

25 As to the market evidence, defendants point out that plaintiffs' experts barely address the
26 fact that Korean Ramen represents less than 15% of United States instant noodles market. Instead,
27 both of plaintiffs' experts posit a smaller market – the "Korean Noodle market" – which is
28 dominated by the defendants in both Korea and in the United States. Mangum Decl. ¶¶ 105-08;

1 Ackerberg Decl. at 18-19. This is part of the DPPs attempt to differentiate themselves from the
2 wider instant noodle market in the United States and to support their argument that the Korean
3 Noodle market in the United States is inelastic in light of Korean Noodles' "unique" flavor profile
4 and "premium" branding.³³ Cox points out that the majority of noodles sold at the "premium"
5 Korean Noodle price point (\$1.00 to \$1.50) *are* Japanese ramen, Cox Reply Decl. ¶ 49, although
6 the vast majority of the Japanese ramen are sold at the lower non-premium price points. Mangum
7 Reply Decl. ¶¶ 43, 47; Ackerberg Decl. at 12-13, Ackerberg Reply Decl. at 5.

8 A final determination of the relevant market and what the defendants' market power was in
9 that relevant market need not be decided on this motion. Plaintiffs have made a showing that, if
10 defined as the narrower Korean Noodle market, the defendants had market power to be able to
11 increase prices in the United States (and there is no dispute that the defendants had that power in
12 the domestic market in Korea). That showing, combined with the modicum of evidence that the
13 prices in the United States market were set off of the prices in the Korean market, support a
14 preliminary showing of market power and impact.

15 Similar to the attacks on the inputs used by Mangum in his econometric model, defendants
16 criticize Mangum's showing of correlation between prices as increased in Korea and the United
17 States. But that attack largely depends on how long a lag time between the price rises of one
18 defendant and the other conspirators should be considered, and how long a lag time between
19 increased prices in Korea and increased prices in the United States should be considered.
20 Relatedly, the parties dispute whether absolute price increases or percentage increases should be
21 used for those correlation analyses. At base, however, Cox admits that prices increased in the
22 United States during the relevant time frame and the delta between COGS and sales prices
23 increased during the class period. Cho Supp. Decl., Exh. 2 (Cox Tr.) at 102:12-15; 102:21-
24

25 ³³ Defendants point out that Mangum's analysis of market characteristics was criticized in *In re*
26 *Florida Cement & Concrete Antitrust Litig.*, No. 09-23187-CIV, 2012 WL 27668 *11 ("While a
27 market with the characteristics identified by Dr. Mangum may in theory be vulnerable to a price-
28 fixing conspiracy (and capable of proof under a common impact theory), Dr. Mangum fails to
show that the market at issue here possesses those characteristics."). However, the characteristics
of the Korean domestic market are undisputed, and only a few narrow questions regarding the
United States market are presented, *i.e.*, whether to consider lower price point instant noodles or
Japanese, Chinese, and other noodles at all.

1 103:21. Mangum shows how, once manufacturing overhead costs are removed, the delta between
 2 the prices charged and COGS tripled in magnitude by the end of the conspiracy period. Mangum
 3 Reply Decl. ¶ 27 & fn. 34. Cox does not address the delta between prices and costs in his reply
 4 declaration, except to further argue Mangum's costs estimates are faulty and low.

5 Overall, at this stage, I conclude that Mangum's opinions – based on anecdotal evidence,
 6 correlations on prices, and his regression model – provide a reliable and accepted source of
 7 classwide proof of impact. Defendants' arguments as to divergent and unaccounted for actual
 8 prices, underestimated costs (and therefore underestimated but-for prices), and the resulting
 9 alleged weaknesses or irrational conclusions in Mangum's regression model and "cross-check"
 10 correlation determinations, can be attacked at summary judgment or trial. They do not require
 11 exclusion of Mangum's opinions or a conclusion that impact cannot be determined on a classwide
 12 bases for the DPPs.³⁴

13 **2. Damages**

14 Untenable Results: Defendants argue Mangum's damages showing is likewise inherently
 15 unreliable because it "departs from reality." Defendants point to Mangum's conclusion that
 16 defendants' average overcharge was 44%, and that prices therefore should have been 60% lower.
 17 Where defendants' net profit margin (according to defendants) was never over 10%, that level of
 18 overcharge is simply implausible and would require multiple years of below actual cost sales.
 19 According to defendants, Mangum's model is no different from the model rejected in *In re Rail*
 20 *Freight Fuel Surcharge Antitrust Litig.*-MDL No. 1869, 725 F.3d 244, 254 (D.C. Cir. 2013),
 21 where plaintiff's model was rejected because it generated substantial false positives for damage

22

23 ³⁴ See e.g., *In re Optical Disk Drive Antitrust Litig.*, No. 3:10-MD-2143 RS, 2016 WL 467444, at
 24 *7 (N.D. Cal. Feb. 8, 2016) (rejecting defendants' attack on econometric regression model based
 25 on plaintiffs' expert's "selection of particular data to utilize, the variables he has elected to include
 26 in his regressions, and similar details relating to the implementation of his econometric models,"
 27 and noting that those challenges may be "considered by a fact-finder evaluating the persuasiveness
 28 of" that expert's conclusions but do not provide a "basis for wholly rejecting those conclusions at
 this stage in the proceedings as methodologically unsound."); see also *Kumar v. Salov N. Am. Corp.*, No. 14-CV-2411-YGR, 2016 WL 3844334, at *10 (N.D. Cal. July 15, 2016) ("While the
 ultimate persuasiveness of the [regression] model is a matter to be decided by a trier of fact,
 Kumar has sufficiently established that it has a model for calculating the damages resulting from
 its theory of liability.").

1 where they could be none.

2 According to defendants, there are obviously false positives for the class members here
3 given the improbably high 44% overcharge. However, as explained above, simply because profit
4 margins remained constant – despite the increase in prices and only slight increase in COGS – that
5 does not mean a 44% overcharge departs from reality. The income that may have resulted from
6 what plaintiffs allege were conspiracy overcharges were, according to plaintiffs, simply put to
7 other uses like manufacturing expansion. *See* Mangum Decl. Exs. 29.1-R, 29.2-R. On reply, after
8 using different cost inputs in response to Cox's criticism, Mangum's model produces between a
9 29% and 37% overcharge. Mangum Reply ¶ 200.³⁵ Mangum's inputs and resulting estimated
10 overcharge may be ripe for attack on summary judgment or trial, but they are not to inherently
11 unreliable or untenable to be excludable or preclude class certification.³⁶

12 Methodological Errors: Building on some of the same criticisms of the injury showing,
13 defendants again attack Mangum's "faulty inputs" that produce unreliable outputs, including
14 ignoring customer-specific discounts (miscalculating actual prices paid) and relying on
15 "imprecise" average-cost indexes (which manipulated the but-for price and ignored the actual cost
16 data which Mangum had access to). Defendants argue that Nongshim America and Ottogi had
17 very different costs, given Nongshim's production in the United States and Ottogi's importation
18 from Korea, and Mangum ignored cost differentials between different products. Cox Decl. ¶ 167.
19 Defendants assert when actual prices are considered, some DPPs were undercharged. Cox Decl.
20 ¶¶ 237-40, 268-97.

21 As with impact, the success of defendants' arguments as to damages hinge on the disputed

22
23 ³⁵ And Cox, using his own cost inputs and Mangum's model, calculated damages running from
24 6% in the initial conspiracy period and up to 40% in the last conspiracy period, with lower ranges
for periods inbetween. Cox Decl., Ex. 22.

25 ³⁶ The alleged defaults in Mangum's model are not, even accepting defendants' criticisms, similar
26 to the defects in the plaintiffs' model in the *In re Rail Freight Fuel Surcharge Antitrust Litig.*–
27 MDL No. 1869, 725 F.3d 244, 252 (D.C. Cir. 2013) case. There, the plaintiffs' model showed
significant injury to a group of shippers who no one disputed were not injured. *Id.* at 252.
Plaintiffs' expert's admission that his model was overinclusive, "shred[ed] the plaintiffs' case for
certification." *Id.*

1 facts and assumptions utilized by the competing experts. Defendants' and Cox's complaints about
2 the aggregate damages produced from Mangum's model are essentially directed to the same
3 complaints as to injury discussed above, many of which were addressed in Mangum's "refined"
4 model discussed in his reply declaration. False positives – inclusion of class members who were
5 not damaged in any of the conspiracy periods at issue – occur with any significance *only* when
6 Cox's preferred cost index and price measures are used. Mangum's showing that 97% of class
7 members were injured during the conspiracy (Mangum Reply Decl. ¶ 202), is substantiated and
8 sufficient at this juncture to show how plaintiffs can prove damages on a classwide basis.

9 In the antitrust context, aggregate damages calculations "need not be exact" at class-
10 certification stage. Instead, the model supporting a damages case must be consistent with
11 plaintiffs' liability theory, as it is here. *Comcast Corp. v. Behrend*, 133 S. Ct. 1426, 1433 (2013).
12 That different class members suffered different levels of damages likewise will not usually
13 preclude certification. *See, e.g., Vaquero v. Ashley Furniture Indus., Inc.*, 824 F.3d 1150, 1155
14 (9th Cir. 2016) ("We have repeatedly confirmed . . . that the need for individualized findings as to
15 the amount of damages does not defeat class certification.").

16 B. Typicality

17 Defendants argue that because the DPPs are differently situated, they are not adequate to
18 represent the class. Defendants first note that the DPPs are different *types* of entities; national
19 chains vs. distributors vs. wholesalers vs. Korean or Hispanic markets. They next point out that
20 the named DPPs are (or were) based in California and New Jersey and, therefore, differently
21 situated from DPPs located in other states who paid different prices based on freight costs. These
22 differences, when combined with Cox's showing that different DPPs paid different prices based
23 on purchasing power and purchasing history, are the basis for defendants' claim that the named
24 DPPs' claims are not typical of the absent DPP class members.

25 However, that DPPs paid different prices for their Korean Ramen and purchased in
26 different quantities, and therefore suffered different damages, does not create conflicts between
27 class members that precludes a finding of typicality. "[T]here is substantial legal authority
28 holding in favor of a finding of typicality in price fixing conspiracy cases, even where differences

1 exist between plaintiffs and absent class members with respect to pricing, products, and/or
2 methods of purchasing products.” *In re Dynamic Random Access Memory (DRAM) Antitrust*
3 *Litig.*, No. M 02-1486 PJH, 2006 WL 1530166, at *5 (N.D. Cal. June 5, 2006); *see also In re*
4 *Optical Disk Drive Antitrust Litig.*, No. 3:10-MD-2143 RS, 2016 WL 467444, at *12 (N.D. Cal.
5 Feb. 8, 2016) (same); *In re TFT-LCD (Flat Panel) Antitrust Litig.*, 267 F.R.D. 291, 306 (N.D. Cal.
6 2010) *abrogated on different grounds by In re ATM Fee Antitrust Litig.*, 686 F.3d 741 (9th Cir.
7 2012) (“There is ample support in the antitrust case law for certifying classes in which there are
8 some variations between products, customers, marketing and distribution channels.”).

9 Plaintiffs point out that the wholesale plaintiffs (Rockman and Pitco) were some of
10 Nongshim’s largest customers during the relevant time frame. Cho Ex. 15.3. The representative
11 DPPs also purchased ramen over numerous years, with Rockman purchasing in every year of the
12 class period while Summit (a wholesaler in New Jersey) purchased less product and in only a few
13 of the periods. These DPPs represent, therefore, a cross-section of potential DPPs. Cho Exs. 7.1,
14 7.2. Defendants have not identified any unique defenses directed to any particular DPPs that
15 would create *actual* conflicts between class members or otherwise undermine the named DPP
16 plaintiffs’ typicality or ability to represent the other DPPs.

17 In sum, plaintiffs have shown that the class is numerous, plaintiffs and their counsel are
18 adequate, and the named DPPs are typical. I also conclude that classwide proof can be used to
19 demonstrate classwide impact from the alleged antitrust conspiracy (or under defendants’ theories,
20 classwide proof of a lack of impact) and that common issues of fact and law will predominate.

21 C. Certification of Injunctive Relief Class under Rule 23(b)(2)

22 Plaintiffs also move to certify their injunctive relief claim under Rule 23(b)(2). DPPs do
23 not assert that there is any ongoing collusive conduct and admit that the collusive conduct ended
24 in 2010 when Samyang reduced its prices to apologize to its customers for its behavior. Cho
25 Decl., Ex. 2 (Jung-Soo Kim Dep. Tr.) at 92:12-17. However, the DPPs argue that certification of
26 their injunctive relief claims is appropriate because, “Defendants are still very much capable of
27 engaging in the types of anti-competitive conduct that has caused injury to the Class.” DPP Mot.
28 at 17. DPPs rely on cases where injunctive relief (b)(2) classes were certified under similar

1 circumstances. *See, e.g., In re TFT-LCD (Flat Panel) Antitrust Litig.*, 267 F.R.D. 583, 596 (N.D.
2 Cal. 2010), amended in part, No. M 07-1827 SI, 2011 WL 3268649 (N.D. Cal. July 28, 2011)
3 (certifying injunctive relief class where “Plaintiffs have alleged a multi-company cartel that
4 operates in a market with high barriers to entry, and that engaged in frequent clandestine meetings
5 and employed sophisticated monitoring devices to ensure compliance.”); *In re Static Random
6 Access memory (SRAM) Antitrust Litig.*, 264 F.R.D. 603, 611 (N.D. Cal. 2009) (“They allege that
7 Defendants’ price-fixing resulted from a systematic, repeated pattern of sharing sensitive
8 competitive information which was greatly facilitated by the cross-competitor business
9 relationships that still exist. Thus, there is alleged a significant risk that the conspiracy will persist
10 or reform in the future.”).

11 Defendants do not oppose or address the propriety of certification under (b)(2) in their
12 opposition. In light of the evidence of continuing market power of defendants and concentration
13 in the market, certification of the injunctive relief claims under Rule 23(b)(2) is appropriate.

14 **II. IPP MOTION FOR CLASS CERTIFICATION**

15 **A. Predominance Under Rule23(b)(3)**

16 **1. Injury**

17 Defendants argue that Ackerberg’s regression model fails for essentially the same reasons
18 as Mangum’s. I have addressed and largely rejected those arguments above. They also raise two
19 IPP-specific arguments: (i) Ackerberg fails to account for significant variations in sales prices to
20 the differently situated IPPs; and (ii) Ackerberg fails to offer any methodology to determine pass-
21 through rates on a classwide basis.

22 Actual Price Data: As with Mangum, defendants fault Ackerberg for not using actual price
23 data with discounts. That issue is addressed above, and does not make Ackerberg’s model or his
24 conclusions so unreliable that either fails to pass muster under *Daubert* or the rigorous showing
25 required by Rule 23. That prices charged by Nongshim and Ottogi to the DPPs differed according
26 to price lists, time period, geographic location, or the negotiating skills of particular DPPs has
27 little relevance in light of the actual transaction data from the defendants (which may need to be
28 adjusted in plaintiffs’ experts’ models in light of the new information disclosed by Cox and

1 received from Nongshim employees about how to interpret that transaction data).³⁷

2 Cost-Indices: Similar to their attack on Mangum, defendants argue that Ackerberg erred in
3 failing to use actual cost data or product-specific costs to calculate his but-for price and instead
4 erroneously relied on an average set of cost indices. As noted above, in his Rebuttal Declaration
5 Ackerberg takes advantage of additional cost data produced by defendants and adds to his model
6 (a) product-category cost indices (similar to Cox), (b) company-specific cost indices for Ottogi
7 products, Nongshim products manufactured in Korea, and Nongshim products manufactured in the
8 U.S (like Cox, using Ottogi's internal transfer prices for pre-2006 Ottogi sales data), and for added
9 confirmation, (c) his original cost index. Ackerberg Reb. Decl. at 25-26. Use of this additional
10 data addresses many of defendants' main attacks, and Ackerberg's model continues to show
11 significant injury to class members except for the first conspiracy period, where impact existed but
12 was much lower. *Id.* at 26. In the end, what the but-for price should have been (based in large
13 part on what costs were) will be debated on summary judgment and trial. But Ackerberg's
14 showing at this juncture is based on reasonable (if debatable) cost measures that show classwide
15 impact.

16 Pass-Through: Defendants criticize Ackerberg's use of a 100% pass-through rate, which
17 Ackerberg arrived at after reviewing deposition testimony from IPPs as well as data from two
18 retailers and two end purchasers which shows pass-through rates from 93% to 138%. Defendants
19 fault Ackerberg for not reviewing additional pass-through data to come up with a more robust
20 estimate of pass through rates, especially in light of their argument that the channels of
21 distribution in the ramen market are many and diverse (and changed overtime with the formation
22 of Ottogi America). Defendants rely on *In re Graphics Processing Units*, 253 F.R.D. 478, 505
23 (N.D. Cal 2008), where the court noted – in absence of any econometric modeling – that “[c]lass
24 certification is problematic where a plaintiff's method of proving pass-through requires a reseller-

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26 ³⁷ I note, again, that defendants do not identify any individual DPPs who were allegedly uninjured
27 throughout the collusion periods because they negotiated significant discounts on every purchase
28 from defendants. They apparently are unable to do so if using Mangum's or Ackerberg's models
with the revised price data, and likely can only do so when relying on Cox's model with its much
lower but-for price.

1 by-reseller analysis.” However, the market in the GPU case was markedly more complex than
2 here. Not only were there a “variety” of resellers and distinct channels through which graphics
3 chips flowed, the chips were sold “to some indirect purchasers on a stand-alone basis but to others
4 bundled in a computer” creating an especially “intricate” distribution chain. *Id.* at 499. Here, the
5 distinctions between wholesalers and different types and sizes of retailers selling packaged
6 noodles do not present those sorts of intricacies. Ackerberg based his analysis on an admittedly
7 small sampling of resellers, but defendants do not show how that small sample size creates actual
8 problems with his conclusions. Finally, Ackerberg’s use of a conservative pass-through estimate
9 of 100% further supports the reasonableness of his approach at this juncture.³⁸

10 Wrong Model/Wrong Variables: As with Mangum, this argument criticizes Ackerberg’s
11 use of the hedonic/dummy variable approach, instead of Cox’s forecasting model, and asserts
12 without support that Ackerberg’s model suffers from a “severe” multicollinearity problem. As
13 noted above, disputes about the appropriate degree of collinearity cannot defeat class certification.
14 *See, e.g., In re High-Tech Employee Antitrust Litig.*, No. 11-CV-02509-LHK, 2014 WL 1351040,

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16 ³⁸ Defendants also rely on *In re Graphics Processing Units Antitrust Litig.*, No. C 06-4333 PJH,
17 2008 WL 4155665 (N.D. Cal. Sept. 5, 2008), where the Court rejected plaintiffs’ expert’s pass-
18 through estimate because it failed to adequately address significant differences in pass-through
19 rates. *Id.* *8. However, the DRAM market also presented “unique” complexities (the product
20 came in different densities, speeds, and frequencies was sold in three forms-as free-standing
21 memory chips, as a component in DRAM ‘modules,’ or as a component in other electronic
22 products, such as computers, printers and networking equipment) and included government
23 purchasing classes which varied dramatically in size, purchasing power, and rebates secured. *Id.*
24 at *8. The ramen market does not present the same sort of complexities. Defendants also cite *In re
25 Processed Egg Prod. Antitrust Litig.*, 312 F.R.D. 124 (E.D. Pa. 2015), which dealt with another
26 complex market. In that case, the experts’ pass-on analysis was rejected because it did not account
27 for the evidence showing the use of cost-plus contracts, pricing eggs as loss-leaders, and the
28 practice of smaller retailers matching pricing of bigger box stores. *Id.* at 158. In addition, the
expert there performed an analysis of only one retailer (as opposed to the two retailers and two
distributors here), and the defense expert presented contradictory evidence having “analyzed the
store-level data and concluded that significant variation exists between different retailers and even
for different types, sizes, and colors of eggs.” *Id.* at 159. That sort of contradictory evidentiary
showing has not been made here. Finally, in *In re Florida Cement & Concrete Antitrust Litig.*,
278 F.R.D. 674 (S.D. Fla. 2012), the court rejected the expert’s assumption that 100% pass
through would occur based on contract terms that contemplated pass-through, in light of
significant evidence that DPPs did not consistently pass through and instead absorbed the impact
from higher concrete prices given the “poor” state of the construction industry. Similar
contradictory evidence or expert testimony regarding Ackerberg’s evidence-based estimate of pass
through have not been presented here.

1 at *21 (N.D. Cal. Apr. 4, 2014).

2 **2. Damages**

3 Defendants argue that the flaws in Ackerberg's analysis – his failure to address differences
4 in the manufacture, procurement, and sale of ramen and use of cost averages – render his
5 aggregate damages (based on the regression model's output) inherently unreliable. This,
6 compounded with an alleged failure to adequately account for differing pass through rates, means
7 that Ackerberg's model is insufficient under *Comcast Corp. v. Behrend*, 133 S. Ct. 1426 (2013)
8 and that his opinions excludable under *Daubert*, according to defendants. These attacks are
9 similar in scope and effect to the ones made against Mangum that I have rejected.³⁹ As with
10 injury, defendants challenge Ackerberg's failure to take into account more actual data to support
11 his 100% pass-through estimate and argue that his aggregate damages estimate is inherently
12 unreliable as a result. However, defendants do not identify *any evidence* to support their argument
13 (*e.g.*, there is no evidence that given the actual market dynamics for Korean Noodles, DPPs were
14 unable to pass through the alleged overcharge). As defendants fail to show that Ackerberg's 100%
15 pass-through estimate is significantly flawed, that evidence-based estimate is sufficient at this
16 juncture.

17 **B. Typicality**

18 Defendants focus on the differences between the IPPs – individuals from six states who
19 purchased ramen through different channels (Korean grocery stores, Hispanic markets, or
20 warehouse stores) – to argue that the named IPPs are differently situated from and not typical of
21 absent IPPs who reside in other states and who purchased through different channels. While
22 defendants identify many individual types of consumers and show that the IPPs purchased Korean
23 Noodles from different channels, defendants fail to show how those differences separate them
24 from each other with respect to the overcharge claim at issue. *See, e.g., Ellis v. Costco Wholesale*

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26 ³⁹ For example, defendants challenge Ackerberg's initial estimate of a 31% average overcharge as
27 "untenable" as Mangum's 41% estimate. Defendants likewise challenge Ackerberg's omission of
28 discounts/incentives and actual cost data, as well as his use of averaged-cost indices. For the
reasons discussed above, these challenges do not show that Ackerberg's model is inherently
unreliable or unable to show classwide injury.

1 *Corp.*, 657 F.3d 970, 984 (9th Cir. 2011) (“The test of typicality ‘is whether other members have
2 the same or similar injury, whether the action is based on conduct which is not unique to the
3 named plaintiffs, and whether other class members have been injured by the same course of
4 conduct.’” (quoting *Hanlon v. Chrysler Corp.*, 150 F.3d 1011, 1020 (9th Cir.1998))).

5 Simply because the consumers are different does not make them atypical with respect to
6 the factual or legal issues in this case. Defendants only real stab at differentiating the IPPs is to
7 argue that Ackerberg’s model fails to prove that each IPP suffered damage from the overcharge.
8 However, if a putative IPP was not damaged by any overcharge during the class period, then that
9 person is not within the class. If a putative IPP was damaged even once, then they are in the class
10 and not differently situated from the other IPPs, even though they may have purchased less ramen
11 or purchased it through different channels.⁴⁰

12 C. Ascertainability

13 Because absent class members can only be identified by uncorroborated self-identification,
14 defendants argue the class is not ascertainable. However, as the Ninth Circuit recently reaffirmed,
15 concerns about illegitimate claims and manageability – such as those expressed by defendants here
16 – are accounted for by other provisions of Rule 23; that consumers do not generally save “grocery
17 receipts and are unlikely to remember details about individual purchases of a low-cost product”
18 like ramen, does not mean a class of consumers cannot be certified. *See Briseno v. ConAgra*
19 *Foods, Inc.*, No. 15-55727, 2017 WL 24618, at *3, 10 (9th Cir. Jan. 3, 2017). Neither the fact that
20 class members have to “self-identify” nor that they might not have readily available proof of
21 purchase, means that they are not ascertainable sufficient for class certification. *See, e.g., Kumar*
22 *v. Salov N. Am. Corp.*, No. 14-CV-2411-YGR, 2016 WL 3844334, at *6 (N.D. Cal. July 15, 2016)
23 (finding class members ascertainable despite defendant’s arguments that class members would
24 have to self-identify and show “what they paid, where they purchased it, and how many times,

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28 ⁴⁰ This is not a situation like *In re Graphics Processing Units Antitrust Litig.*, 253 F.R.D. 478,
489–90 (N.D. Cal. 2008) where the “overwhelming disparities” between the IPPs – the *average*
wholesaler purchased \$19.2 million in products but the *aggregate* of hundreds of thousands of
individual consumer transactions only came to \$7.83 million – created significant typicality
hurdles.

1 plus whether they saw and were deceived" by a product's label). Post-judgment claims forms and
2 other tools can be used to allow defendants to test an absent class member's purported entitlement
3 to damages and to appropriately apportion damages between class members. *Id.* at *7; *see also*
4 *Briseno*, 2017 WL 24618 at *9 (at "the claims administration stage, parties have long relied on
5 'claim administrators, various auditing processes, sampling for fraud detection, follow-up notices
6 to explain the claims process, and other techniques tailored by the parties and the court' to validate
7 claims.").

8 **D. State Law Claims**

9 Generally, due process requires a showing of either sufficient contacts or absence of
10 conflict between laws before one state's laws can be exported and apply to the claims of class
11 members in other states. *See, e.g., Phillips Petroleum Co. v. Shutts*, 472 U.S. 797, 808, 819-820
12 (1985); *AT & T Mobility LLC v. AU Optronics Corp.*, 707 F.3d 1106, 1113 (9th Cir. 2013). Even
13 if constitutional concerns are satisfied, however, choice of law rules should be considered to weigh
14 the different interest of the different state laws at issue. *AU Optronics Corp.*, 707 F.3d at 1113
15 ("Objections based on the interests of other states are more properly raised under a choice of law
16 analysis."). Defendants argue that a nationwide class is inappropriate under the Cartwright Act
17 and that variations in the state laws of the states where the named IPPs live preclude certification.

18 As to due process, plaintiffs rely heavily on *AT & T Mobility LLC v. AU Optronics Corp.*,
19 707 F.3d 1106 (9th Cir. 2013). There, in a price-fixing case with similar aspects to this one (a
20 foreign conspiracy with alleged collusive behavior in California impacting the United States
21 market), the Ninth Circuit held that where "the underlying conduct in this case involves not just
22 the indirect purchase of price-fixed goods, but also the conspiratorial conduct that led to the sale of
23 those goods," California's Cartwright Act could be applied to a class without impinging on
24 defendants' due process rights.⁴¹ The court held "that the Cartwright Act can be lawfully applied

25
26 ⁴¹ The California-based conspiratorial conduct alleged in *AU Optronics* there was extensive,
27 namely that defendants: (i) engaged in and implemented their conspiracy in the U.S. through the
28 offices they maintained in California; (ii) that Defendants entered into agreements to fix the prices
of LCD panels in California; (iii) that significant conspiratorial conduct took place in California,
including that "specific employees of particular Defendants, operating from offices in California,
participated in illegally obtaining and sharing their co-conspirators' pricing information." *Id.* at

1 without violating a defendant's due process rights when more than a *de minimis* amount of that
2 defendant's alleged conspiratorial activity leading to the sale of price-fixed goods to plaintiffs took
3 place in California. Such a defendant cannot reasonably complain that the application of California
4 law is arbitrary or unfair when its alleged conspiracy took place, at least in part, in California." *Id.*
5 at 1113.

6 The court rejected a focus on place-of-purchase to define the "relevant transaction or
7 occurrence" because that "too-narrow focus" "severely truncates the scope of anticompetitive
8 conduct that the Act proscribes." *Id.* at 1110.⁴² Therefore, the district court must consider "all of
9 the Defendants' conduct within California leading to the sale of price-fixed goods outside the state
10 when determining whether California law could be applied without offending Defendants' due
11 process rights." *Id.* at 1112. Here, there are more than *de minimis* allegations of conspiratorial
12 conduct and impact occurring in California.

13 As to the choice of laws analysis, before California law can be used on a classwide basis,
14 plaintiffs must show that "California has 'significant contact or significant aggregation of
15 contacts' to the claims of each class member;" if that is shown, defendants must demonstrate that
16 the foreign law, rather than California law, should apply to the claims because the interests of
17 those states outweigh the interests of California. *Mazza v. Am. Honda Motor Co.*, 666 F.3d 581,
18 590 (9th Cir. 2012). Under that second prong, the court applies California's three-part choice of
19 law analysis: (i) whether the relevant law of each of the potentially affected jurisdictions with
20 regard to the particular issue in question is the same or different; (ii) if there is a difference,

21
22 1109.

23 ⁴² This clear admonition makes the two primary cases defendants rely on to oppose application of
24 the Cartwright Act outside of California unpersuasive. *See In re Relafen Antitrust Litig.*, 221
25 F.R.D. 260, 277 (D. Mass. 2004) (concluding the "most significant contact in this context to be the
26 location of the injury—that is, the location of the sales to the end payor plaintiffs" and declining to
27 certify a nationwide antitrust class under Pennsylvania law); *In re Graphics Processing Units*
28 *Antitrust Litig.*, 527 F. Supp. 2d 1011, 1028 (N.D. Cal. 2007) (following *Relafen*). The Ninth
Circuit in *AU Optronics* undercut the *Relafen* decision in another significant way by explaining
that the purpose of the Cartwright Act as confirmed by the California Supreme Court is not only to
compensate injured consumers but to also deter defendants and disgorge ill-gotten profits. 707
F.3d at 1113-1114.

1 examine whether each jurisdiction's interest in the application of its own law under the
 2 circumstances of the particular case to determine whether a true conflict exists; and (iii) if there is
 3 a true conflict, evaluate and compare the nature and strength of the interest of each jurisdiction in
 4 the application of its own law to determine which state's interest would be more impaired if its
 5 policy were not applied, and then apply the law of the state whose interest would be more
 6 impaired. *Id.*

7 The only potential conflict between state laws identified by defendants – and it is *their*
 8 *burden* to identify conflicts – is the distinction between states who have repealed *Illinois Brick* and
 9 allow indirect purchaser plaintiffs to pursue price-fixing claims and those that have not. Oppo. to
 10 IPP at 24-25.⁴³ Defendants have not identified any conflicts to applying the Cartwright Act to the
 11 24 *Illinois Brick* repealer jurisdictions, and therefore class certification for those jurisdictions is
 12 appropriate.⁴⁴ See, e.g., *In re Optical Disk Drive Antitrust Litig.*, No. 3:10-MD-2143 RS, 2016
 13 WL 467444, at *14 (N.D. Cal. Feb. 8, 2016) (certifying a class under the Cartwright Act for IPPs
 14 in *Illinois Brick* repealer states).

15 The next question is whether application of the Cartwright Act to the non-repeater states
 16 would undermine the interests of those states and impair those interests more than California's
 17 interests in punishing price-fixing behavior that emanates from its borders. Plaintiffs argue that
 18 despite failing to repeal *Illinois Brick*, those states have no compelling interest in denying their
 19

20⁴³ Instead of identifying conflicts between other states' laws and the Cartwright Act, defendants
 21 rely on false advertising and unfair competition cases, mostly from the food and product mis-
 22 labelling contexts, which generally follows *Mazza*'s recognition that there are material
 23 differences in each state's consumer protection statutes and that states have conflicting interests
 24 "insofar as consumer protection laws affect a states' ability to attract industry." *Astiana v. Kashi*
 25 *Co.*, 291 F.R.D. 493, 510 (S.D. Cal. 2013) (quoting *Mazza*); Oppo. to IPP. at 25. Those cases are
 26 not persuasive on the question of whether the Cartwright Act should be applied to a class broader
 27 than California residents. See also *In re Yahoo Mail Litig.*, 308 F.R.D. 577, 602 (N.D. Cal. 2015)
 28 (declining to certify a nationwide class because of material differences between California's
 Invasion of Privacy Act [CIPA] and the wiretapping statutes of the other states, especially in light
 of the different standards of liability under the statutes and the California legislature's express
 statement that CIPA was intended to protect residents of California).

⁴⁴ Those jurisdictions are Arizona, California, Florida, Hawaii, Kansas, Maine, Massachusetts,
 Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Mexico,
 New York, North Carolina, Oregon, Tennessee, Utah, Vermont, West Virginia, and Wisconsin,
 and the District of Columbia.

1 citizens the ability to recover for antitrust violations committed by out-of-state or foreign
 2 companies. However, as recently recognized in this District, “[g]iven that the action simply could
 3 not go forward in non-repealer states, however, it is too much of a stretch to employ California
 4 law as an end run around the limitations those states have elected to impose on standing.” *In re*
 5 *Optical Disk Drive Antitrust Litig.*, No. 3:10-MD-2143 RS, 2016 WL 467444, at *12 (N.D. Cal.
 6 Feb. 8, 2016).

7 Therefore, IPP’s claims only under the 24 repealer jurisdictions are certified for purposes
 8 of Rule 23(b)(3) under the Cartwright Act.

9 **E. Nationwide Injunctive Relief Class under Rule 23(b)(2)**

10 The IPPs argue that a nationwide injunction class should be certified under Rule 23(b)(2)
 11 and the Sherman Act, given the highly concentrated nature of the industry and defendants’ alleged
 12 ability to resume their price-fixing plan at will.⁴⁵ As with the DPPs’ motion, defendants do not
 13 address this issue or attempt to show why certification of an injunctive relief class is inappropriate.

14 As noted above, plaintiffs have put forth evidence of market power by defendants, as well
 15 as evidence of a conspiracy to engage in antitrust conduct that impacted the United States. That
 16 evidence provides a sufficient basis for certifying an injunctive relief class at this juncture.

17 **III. EVIDENTIARY OBJECTIONS**

18 Defendants also assert a number of objections to the evidence plaintiffs rely on, and do so
 19 in an exceptionally cursory manner. *See* Dkt. No. 403-2 at 25; Dkt. No. 403-4 at 25.⁴⁶ Plaintiffs

20
 21 ⁴⁵ A class may be certified under Rule 23(b)(2) where “the party opposing the class has acted or
 22 refused to act on grounds that apply generally to the class, so that final injunctive relief or
 23 corresponding declaratory relief is appropriate respecting the class as a whole.” Fed. R. Civ. Proc.
 23(b)(2).

24
 25 ⁴⁶ Defendants object to and move to strike the DPPs responses to these evidentiary objections
 26 because the responses for the initial objections should have been included in the DPP Reply, and
 27 instead DPPs filed a 9 page brief and 57 page chart responding in detail to the objections a month
 28 after their reply brief was filed. Dkt. No. 492; *see also* Dkt. No. 486-4. DPPs have filed an
 administrative motion seeking to have those errors forgiven and ask the Court to consider the
 objections in Dkt. No. 486-4. Defendants move to strike the administrative motion and/or to be
 given the opportunity to file their own chart in similar length to substantiate their original
 objections. Dkt. No. 492. While plaintiffs erred in not responding to defendants’ initial set of
 objections in their reply, defendants’ presentation of their objections was not in full compliance
 either (*i.e.*, submitting a cursory chart of numerous objections with citations to “supporting”
 evidence contained in declarations). However, I have adequate information to be able to resolve

1 object that evidentiary objections are not appropriately considered at the class certification stage.
2 *See, e.g., Keilholtz v. Lennox Hearth Prod. Inc.*, 268 F.R.D. 330, 337 (N.D. Cal. 2010) (“On a
3 motion for class certification, the Court may consider evidence that may not be admissible at
4 trial.”). Nonetheless, I will address the objections briefly.

5 **Hearsay Objections:** Defendants object to portions of Exhibits to the Cho Declaration, the
6 Birkhaeuser Declaration, and the Cho Supplemental Declaration on the ground of hearsay.⁴⁷
7 Most of the objections are directed to statements (from deposition transcripts or documents from
8 the Samyang Hard Drive) from alleged coconspirator Samyang regarding the alleged conspiracy.
9 Some of the other objections are to documents produced by Nongshim, received from the alleged
10 conspirators. These statements and documents arguably fall within the hearsay exception for
11 coconspirator statements (Fed. R. Evid. 801(d)(2)(E)) and the objections are OVERRULED for
12 purposes of the class certification motions. Objections are also made to documents produced by
13 Nongshim and/or Ottogi from their own employees. Objections to these documents are
14 OVERRULED for purposes of the class certification motion as party admissions. Fed. R. Evid.
15 801(d)(2). Some of the other hearsay objections are directed to newspaper articles about the
16 Korean Ramen Noodle industry. I have not relied on those newspaper articles, therefore, the
17 objections are OVERRULED as moot for purposes of the class certification motions.

18 **Authentication Objections:** Defendants object to portions of Exhibits to the Cho
19 Declaration on the ground of lack of authentication.⁴⁸ These are mostly Nongshim or
20 Ottogi business records, documents attached to or otherwise part of the KFTC and Korean
21 Supreme Court proceedings, documents from the Samyang Hard Drive, or deposition excerpts.
22 For purposes of the motions for class certification, the authentication objections are
23 OVERRULED.

24
25 the objections as necessary. Plaintiffs’ administrative motion (Dkt. No. 490) is GRANTED.
Defendants’ motion to strike (Dkt. No. 492) is DENIED.

26
27 ⁴⁷ Cho Decl.: Exs. 2, 14, 16, 17, 18, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 40, 43, 48, 49, 52, 54;
Birkhaeuser Decl.: Exs. O, Z; Cho Supp. Decl.: Ex. 14.

28 ⁴⁸ Cho Decl.: Ex. 4, 7, 8, 15, 17, 22, 23, 24, 25, 26, 27, 28, 29, 31, 37, 40, 43, 50, 54.

1 Lacks Completeness: Defendants object to portions of the Exhibits to the Cho Declaration
 2 and the Birkhaeuser Declaration on the ground that the deposition excerpts “lack completeness.”⁴⁹
 3 Any lack of completeness could have been cured by defendants’ exhibits. The objections are
 4 OVERRULED for purposes of the class certification motions.

5 Lack of Personal Knowledge/Speculative: Defendants object to portions of the Exhibits to
 6 the Cho Declaration and the Birkhaeuser Declaration on the ground that the deponent lacks
 7 personal knowledge and/or is being speculative.⁵⁰ The objected to exhibits contain deposition
 8 excerpts from current or former employees of the alleged conspirators and named plaintiffs. Those
 9 objections are OVERRULED for purposes of the class certification motions.

10 Relevance: Defendants object to exhibits attached to the Cho Supplemental Declaration on
 11 the grounds of relevance, as those exhibits were not actually cited in the DPPs reply.⁵¹ Those
 12 objections are OVERRULED for purpose of the class certification motions.

13 **IV. MOTIONS TO SEAL**

14 The parties have filed a number of motions to seal in conjunction with their filings in
 15 support of or in opposition to the class certification motions. These sealing motions will be
 16 addressed in a separate order.

17 **CONCLUSION**

18 For the foregoing reasons, the DPP and the IPP motions for class certification are
 19 GRANTED and defendants’ *Daubert* motions are DENIED. The following classes are certified
 20 under Rule23(b)(2) and (b)(3):

21 DPP Class:

22 All persons and entities in the United States and its territories who
 23 purchased Korean Noodles directly from Defendants Nong Shim
 24 Co., Ltd., Nongshim America, Inc., Ottogi Co., Ltd., or Ottogi
 25 America, Inc. at any time from April 1, 2003 through January 31,
 2010. The Class excludes the Defendants Samyang Foods Co., Ltd.,
 Samyang (USA), Inc., Korea Yakult, Co., Ltd., Paldo Co., Ltd. and
 any of their current or former parents, subsidiaries or affiliates. The
 Class also excludes all judicial officers presiding over this action

26
 27 ⁴⁹ Cho Decl.: Exs. 19, 20; Birkhaeuser Decl.: Ex. M.

28 ⁵⁰ Cho Decl. Exs. 2, 3, 13, 14, 16, 18, 20, 30, 47, 49, 50, 54; Birkhaeuser Decl. Exs. O & Z.
⁵¹ Cho Supp. Decl. Exs. 4, 6, 7, 8, 15, 16, 18.

1 and their immediate family members and staff, and any juror
2 assigned to this action.

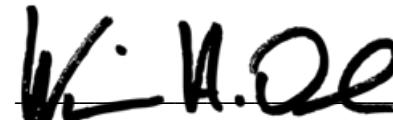
3 **IPP Class:**

4 All persons and entities that purchased "Korean Ramen Noodles" in
5 Arizona, California, Florida, Hawaii, Kansas, Maine, Massachusetts,
6 Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New
7 Hampshire, New Mexico, New York, North Carolina, Oregon,
8 Tennessee, Utah, Vermont, West Virginia, and Wisconsin, and the
9 District of Columbia for their own use and not for resale, from
10 March 1, 2003 through January 31, 2010. For purposes of this
11 definition, "Korean Ramen Noodles" means Nongshim, Ottogi and
12 Samyang branded bag, cup or bowl ramen, including fried, dried,
13 fresh and frozen noodle products. Specifically excluded from this
14 class are any Defendant; the officers, directors, or employees of any
15 Defendant; any entity in which any Defendant has a controlling
16 interest; and any affiliate, legal representative, heir, or assign of any
17 Defendant. Also excluded are the judicial officers to whom this case
18 is assigned and any member of such judicial officers' immediate
19 family.

20 A Case Management Conference is set for **February 14, 2017, at 2:00 p.m.** to set a trial
21 date and pre-trial calendar. The parties shall meet and confer and file a Joint Statement on or
22 before February 8, 2017 proposing dates and identifying any other issues they wish me to consider
23 at the CMC.

24 **IT IS SO ORDERED.**

25 Dated: January 19, 2017

26 
27 WILLIAM H. ORRICK
28 United States District Judge